

STIC Search Report

EIC 1700

STIC Database Tracking Number: 168872

TO: Necholas Ogden
Location: REM 9A31
Art Unit : 1751
October 19, 2005

Case Serial Number: 10/678889

From: Mei Huang
Location: EIC 1700
REMSSEN 4B28
Phone: 571/272-3952
Mei.huang@uspto.gov

Search Notes

Examiner Ogden,

Please review the attached search results.

If you have any questions or if you would like to refine the search query, please feel free to contact me.

Thank you for using STIC services!

Mei Huang



=> fil reg

FILE 'REGISTRY' ENTERED AT 14:23:19 ON 19 OCT 2005

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STRUCTURE FILE UPDATES: 18 OCT 2005 HIGHEST RN 865529-02-8

DICTIONARY FILE UPDATES: 18 OCT 2005 HIGHEST RN 865529-02-8

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2005

Please note that search-term pricing does apply when conducting SmartSELECT searches.

*
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added, *
* effective March 20, 2005. A new display format, IDERL, is now *
* available and contains the CA role and document type information. *
*

Structure search iteration limits have been increased. See HELP SLIMITS for details.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/ONLINE/UG/regprops.html>

=> fil hcap

FILE 'HCAPLUS' ENTERED AT 14:23:22 ON 19 OCT 2005

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FILE COVERS 1907 - 19 Oct 2005 VOL 143 ISS 17

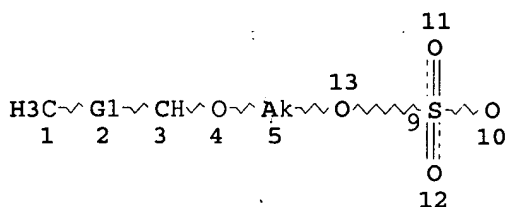
FILE LAST UPDATED: 18 Oct 2005 (20051018/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> d que 129 stat

L13 STR

*parent structure*

REP G1=(0-16) CH

NODE ATTRIBUTES:

DEFAULT MLEVEL IS ATOM

GGCAT IS LIN SAT AT 5

DEFAULT ECLEVEL IS LIMITED

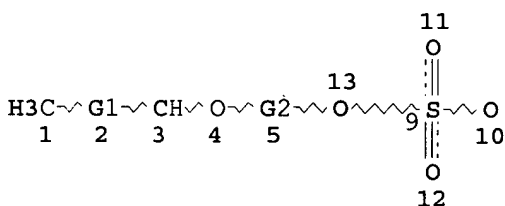
GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 10

STEREO ATTRIBUTES: NONE

L22 STR



REP G1=(0-16) CH

REP G2=(3-6) CH2

NODE ATTRIBUTES:

DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 10

STEREO ATTRIBUTES: NONE

L26 1206 SEA FILE=REGISTRY SSS FUL L13

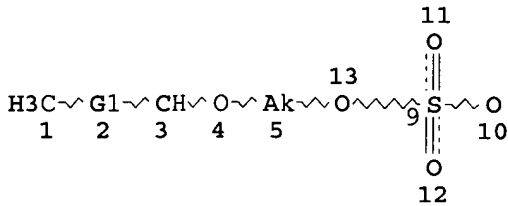
L28 20 SEA FILE=REGISTRY SUB=L26 SSS FUL L22

L29 9 SEA FILE=HCAPLUS L28

=> d que 143

9 answers on Page 4-13

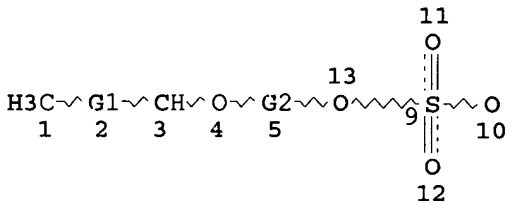
L13 STR



REP G1=(0-16) CH
 NODE ATTRIBUTES:
 DEFAULT MLEVEL IS ATOM
 GGCAT IS LIN SAT AT 5
 DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
 RING(S) ARE ISOLATED OR EMBEDDED
 NUMBER OF NODES IS 10

STEREO ATTRIBUTES: NONE
 L22 STR



REP G1=(0-16) CH
 REP G2=(3-6) CH2
 NODE ATTRIBUTES:
 DEFAULT MLEVEL IS ATOM
 DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
 RING(S) ARE ISOLATED OR EMBEDDED
 NUMBER OF NODES IS 10

STEREO ATTRIBUTES: NONE

L26 1206 SEA FILE=REGISTRY SSS FUL L13
 L28 20 SEA FILE=REGISTRY SUB=L26 SSS FUL L22
 L29 9 SEA FILE=HCAPLUS L28
 L31 318880 SEA FILE=HCAPLUS (CLEAN? OR CLEANSER? OR LAUND? OR
 DEINK? OR RINS? OR DETERS? OR DETERG? OR ABSTERS? OR
 EDULCORAT? OR SANIT? OR HYGIEN? OR DISINFECT? OR
 DECONTAMINA? OR STERILI? OR ABLUT? OR ELUTION# OR
 ELUTRIAT? OR SCRUB? OR SCOUR? OR DEGREAS? OR LIXIV? OR
 WASH?)/IT
 L32 436589 SEA FILE=HCAPLUS (SURFACT? OR BIOSURFACT? OR HYDROTROP?
 OR DETERG? OR ABSTERG? OR (SURFACE(W)ACTIVE# OR WETTING#)
 (A) (AGENT? OR ADDITIVE? OR COMPOUND? OR COMPD# OR CMPD#
 OR CPD#) OR EMULSIFIER? OR DISPERSANT? OR SOAP? OR
 SHAMPOO?)

NOgden 10/678,889

10/19/2005

L33 11479 SEA FILE=HCAPLUS 46-3/SC
L34 1877 SEA FILE=HCAPLUS L26 AND L31
L35 4340 SEA FILE=HCAPLUS L26 AND (L32 OR L33)
L36 1836 SEA FILE=HCAPLUS L34 AND L35
L37 67 SEA FILE=HCAPLUS L36 AND L33
L39 999004 SEA FILE=HCAPLUS (MIXT# OR MIXTURE? OR BLEND? OR ADMIX?
OR COMMIX? OR IMMIX? OR INTERMIX? OR COMPOSIT? OR COMPN#
OR COMPSN# OR FORMULAT? OR INTERSPER?)/TI
L40 27 SEA FILE=HCAPLUS L37 AND L39
L42 35 SEA FILE=HCAPLUS L29 OR L40
L43 26 SEA FILE=HCAPLUS L42 NOT L29

There 26 answers (P13-b5) are obtained combining the parent structure, structure query, L13, page 2, with utility words. There are broader results.

=> d l29 cbib abs hitstr hitind 1-9

L29 ANSWER 1 OF 9 HCAPLUS COPYRIGHT 2005 ACS on STN
2002:487507 Document No. 137:64930 Branched primary alcohol compositions and derivatives, their preparation for detergents. Edwards, Charles Lee; Raney, Kirk Herbert; Shpakoff, Paul Gregory (Shell Internationale Research Maatschappij BV, Neth.). PCT Int. Appl. WO 2002050006 A2 20020627, 61 pp. DESIGNATED STATES: W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG, TR. (English). CODEN: PIXXD2. APPLICATION: WO 2001-EP15143 20011220. PRIORITY: US 2000-PV257670 20001221.

AB A branched alc. compn. comprising a branched ether primary alc. Me(CHR1)xCHR2O(CH2)3OH where R1 = H or a hydrocarbyl radical having 1-3 C atoms, R2 = hydrocarbyl radical having 1-7 C atoms, x = 0-16, where the total no. of C atoms in the alc. is 9-24; and alkyl ether sulfate, alc. alkoxysulfate, and alkanol alkoxylate derivs. are useful in detergent compns. Thus, 0.6 mol of 1-dodecene and 1.8 mol of 1,3-propanediol and 0.024 mol of toluenesulfonic acid monohydrate were heated to 150° for 4 h, and give a 2 phase mixt. from which was sepd. 3-dodecyloxy-1-propanol (I), selectivity to I was 97%, which was reacted with chlorosulfonic acid (0.7 mol) to give an anionic surfactant having crit. micelle concn. (25°) 0.062 and surface tension 28 dynes/cm.

IT 439293-82-0P 439293-83-1P
RL: IMF (Industrial manufacture); PRP (Properties); PREP (Preparation)

(branched primary alc. compns. and derivs. for surfactants with good cold water soly. and high Ca tolerance)

RN 439293-82-0 HCAPLUS

CN 1-Propanol, 3-(dodecyloxy)-, hydrogen sulfate (9CI) (CA INDEX NAME)

HO₃SO⁻ (CH₂)₃-O- (CH₂)₁₁-Me

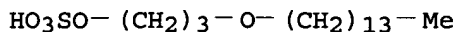
RN 439293-83-1 HCAPLUS

MEI HUANG EIC1700 REM4B28 571-272-3952

Page 4

Applicant

CN 1-Propanol, 3-(tetradecyloxy)-, hydrogen sulfate (9CI) (CA INDEX NAME)



IC ICM C07C043-00

CC 46-3 (Surface Active Agents and Detergents)

Section cross-reference(s): 23

IT 439293-82-0P 439293-83-1P 439293-84-2P

439293-85-3P 439293-86-4P 439293-87-5P

RL: IMF (Industrial manufacture); PRP (Properties); PREP (Preparation)

(branched primary alc. compns. and derivs. for surfactants with good cold water soly. and high Ca tolerance)

L29 ANSWER 2 OF 9 HCAPLUS COPYRIGHT 2005 ACS on STN

1990:140779 Document No. 112:140779 Alkoxytitanium-based surface treatment and treated fillers. Mori, Atsushi; Aizawa, Mamoru; Kataoka, Yoshiharu (Nippon Soda Co., Ltd., Japan). Jpn. Kokai Tokkyo Koho JP 01170624 A2 19890705 Heisei, 7 pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP 1987-329355 19871225.

AB Title fillers, useful for high-mol.-wt. matrixes, are treated with products prepd. from tetraalkoxytitanium and/or its hydrolyzed oligomers (d.p. ≤ 6) and oxyalkylene-contg. acids with 0.1-2.0 mol the acid residues per Ti. Thus, 1 mol tetraisopropoxytitanium and 1 mol mono(pentaoxyethylene) maleate (I) were treated at 60° for 1 h to give title treatment. Then, 100 parts Whiton SSB was mixed with 50 parts of 2% aq. soln. of the treatment and treated at 110° for 2 h to give a filler, 100 parts of which was blended with 75 parts Diol 3000 and kneaded for 30 min to give a compn. showing viscosity 4000 cP at 25° vs. 62,000 for a compn. using a treatment prepd. similarly using N-aminoethylaminoethanol instead of I.

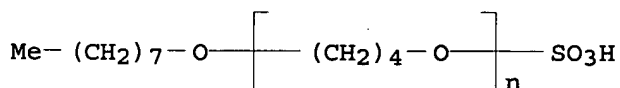
IT 125925-80-6DP, reaction products with tetraisopropoxytitanium

RL: PREP (Preparation)

(prepn. of, as surface treatment for fillers)

RN 125925-80-6 HCAPLUS

CN Poly(oxy-1,4-butanediyl), α -sulfo- ω -(octyloxy)- (9CI) (CA INDEX NAME)



IC ICM C08K009-04

ICS C08K009-04; C09C001-36

CC 38-3 (Plastics Fabrication and Uses)

IT 5593-70-4DP, reaction products with polyoxyalkylene-contg. acids

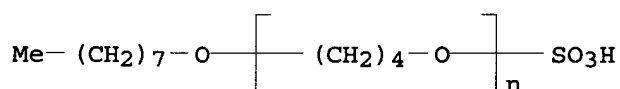
26183-44-8DP, reaction products with tetraisopropoxytitanium

tetramer 31800-89-2DP, reaction products with tetrabutoxytitanium

80165-12-4DP, reaction products with tetrabutoxytitanium hexamers

82293-55-8DP, reaction products with polyoxyalkylene-contg. acids
 125826-06-4DP, reaction products with polyoxyalkylene-contg. acids
 125870-89-5DP, reaction products with polyoxyalkylene-contg. acids
 125925-79-3P 125925-80-6DP, reaction products with
 tetraisopropoxytitanium 125925-81-7DP, reaction products with
 tetraisopropoxytitanium pentamer
 RL: PREP (Preparation)
 (prepn. of, as surface treatment for fillers)

L29 ANSWER 3 OF 9 HCAPLUS COPYRIGHT 2005 ACS on STN
 1990:140609 Document No. 112:140609 Surface treatment of fillers with
 alkoxytitanium coupling agents. Mori, Atsushi; Aizawa, Mamoru;
 Kataoka, Yoshiharu (Nippon Soda Co., Ltd., Japan). Jpn. Kokai
 Tokkyo Koho JP 01252642 A2 19891009 Heisei, 10 pp. (Japanese).
 CODEN: JKXXAF. APPLICATION: JP 1988-81047 19880401.
 AB Coupling agents for use on non-silicate fillers even in aq. systems
 contain alkoxytitanium derivs. which are prepd. by the reaction of
 tetraalkoxytitanium and/or its hydrolytic polycondensate (d.p. <6)
 with an acid contg. a polyoxyalkylene chain and a compd. forming a
 cyclic chelate with Ti and contain 0.1-2.0 mol acid residue/mol Ti
 and >0.2 mol chelating agent/mol Ti. Stirring (iso-PrO)₄Ti 1,
 pentaethylene glycol maleic acid monoester 1, glycolic acid 1, and
 acetylacetone 1 mol at 60° for 1 h and removing iso-PrOH gave
 a coupling agent which (80 parts 2% aq. soln.) was mixed with 100
 parts Whifton SSB and dried at 110° to give a coated filler.
 A 100:75 mixt. of the filler and Diol 3000 (polyether polyol) had
 viscosity 3800 cP, vs. 70,000 with a (BuO)₄Ti-triethanolamine
 reaction product as the coupling agent.
 IT 125925-80-6D, titanium complexes
 RL: USES (Uses)
 (coupling agents, for fillers)
 RN 125925-80-6 HCAPLUS
 CN Poly(oxy-1,4-butanediyl), α-sulfo-ω-(octyloxy)- (9CI)
 (CA INDEX NAME)



IC ICM C08K009-04
 ICS C07F007-28; C08K009-04
 CC 37-6 (Plastics Manufacture and Processing)
 IT 50-21-5D, Lactic acid, titanium complexes 77-92-9D, titanium
 complexes 79-14-1D, titanium complexes 87-69-4D, titanium
 complexes 105-45-3D, titanium complexes 112-27-6D, Triethylene
 glycol, titanium complexes 123-54-6D, Acetylacetone, titanium
 complexes 5593-70-4D, Titanium tetrabutoxide, complexes
 5910-25-8D, 3-Phenylacetylacetone, titanium complexes 9022-96-2D,
 Titanium tetrabutoxide polymer, complexes 26183-44-8D, titanium
 complexes 31800-89-2D, titanium complexes 37916-19-1D, titanium
 complexes 53339-36-9D, complexes 125925-80-6D, titanium
 complexes 125925-81-7D, titanium complexes 126093-15-0D,
 titanium complexes
 RL: USES (Uses)

(coupling agents, for fillers)

L29 ANSWER 4 OF 9 HCAPLUS COPYRIGHT 2005 ACS on STN

1988:77471 Document No. 108:77471 Deinking compositions containing alkylene oxide adducts for recycling of wastepaper. Hamaguchi, Koji; Togashi, Fumihiko; Miyauchi, Yoshitaka (Kao Corp., Japan). Eur. Pat. Appl. EP 241224 A2 19871014, 30 pp. DESIGNATED STATES: R: DE, ES, FR, GB. (English). CODEN: EPXXDW. APPLICATION: EP 1987-302886 19870402. PRIORITY: JP 1986-83419 19860411; JP 1986-313874 19861224.

AB A deinking compn. for recycling waste paper comprises (A) an alkylene oxide adduct of a mixt. of a natural oil or fat and a polyhydric alc. and (B) a compd. selected from the group consisting of (B1) an alkylene oxide adduct of a higher alc. having the formula RO(AO)nH (R = C12-18-alkyl or alkenyl, A = C2-4 alkylene, and n = >5); (B2) a sulfate of an alkylene oxide adduct of a higher alc. having the formula R1O(A1O)mSO3M (R1 = C10-18-alkyl or alkenyl, A1 = alkylene, m = 0.3-5, and M = H, an alkali metal, or NH4) and (B3) a C8-22 fatty acid or its salt. The preferred wt. ratio of (A) to (B) is 99:1-30:70. Thus, 0.4% ethylene oxide (EO)-propylene oxide (PO) adduct with glycerol and palm oil along with C18H37O(EO)10(PO)4H (I) in 70:30 wt. ratio was mixed with NaOH, Na silicate, aq. H2O2 soln., and H2O, mixed with shredded waste newsprint, disintegrated at 55° for 20 min, aged at 50° for 60 min, dild. with H2O to form a 1% pulp consistency. The pulp slurry was treated with 1% CaCl2, subjected to flotation treatment at 30° for 10 min, concd. to 6%, dild. to 1%, and shaped into pulp sheets showing degree of brightness 57.5%, residual ink droplet no. 18, and unreleased ink droplet no. 8, compared with 54.0, 50, and 31, resp., for a similar deinking agent without I.

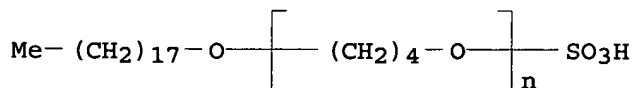
IT 83574-34-9

RL: USES (Uses)

(deinking agents contg., for waste paper)

RN 83574-34-9 HCAPLUS

CN Poly(oxy-1,4-butanediyl), α -sulfo- ω -(octadecyloxy)-, sodium salt (9CI) (CA INDEX NAME)



● Na

IC ICM D21C005-02

ICS C07C043-11; C07C141-08; C08L071-02

CC 43-6 (Cellulose, Lignin, Paper, and Other Wood Products)

IT 75-21-8D, adducts with polyhydric alcs. and vegetable oil or fat
 77-85-0D, Trimethylolethane, adducts with alkylene oxide and vegetable oils or fats
 107-21-1D, adducts with alkylene oxide and vegetable oils or fats
 115-77-5D, adducts with alkylene oxide and vegetable oils or fats
 9003-11-6D, adducts with polyhydric alcs. and vegetable oil or fat
 9004-82-4 9038-43-1 32612-48-9

34431-26-0 37311-00-5 37311-01-6 63428-87-5 65742-74-7
 83574-34-9 85537-47-9 86836-15-9 99752-71-3
 106392-12-5D, Ethylene oxide-propylene oxide block copolymer,
 adducts with polyhydric alcs. and vegetable oil or fat 111445-48-8
 112869-03-1D, adducts with polyhydric alcs. and vegetable oil or fat
 112871-48-4 112871-49-5 112871-50-8 112871-55-3 112898-60-9
 RL: USES (Uses)

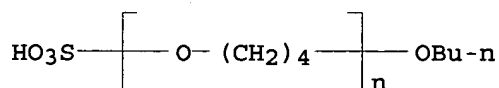
(deinking agents contg., for waste paper)

L29 ANSWER 5 OF 9 HCAPLUS COPYRIGHT 2005 ACS on STN
 1984:39446 Document No. 100:39446 Bases for hair preparations. (Lion
 Corp., Japan). Jpn. Kokai Tokkyo Koho JP 58172307 A2 19831011
 Showa, 9 pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP
 1982-54719 19820401.

AB Hair prepns. contain alkylene oxide polymer derivs. (such as
 polypropylene oxide monobutyl ether Na sulfate [88088-94-2] and
 polyethylene oxide-propylene oxide carboxymethyl ether K salt
 [88385-89-1]) as bases. The compds. are highly sol. and do not
 cause staining on clothing and hair is readily manageable after
 treatment. Thus, a cream rinse was prepd. contg. liq. paraffin 2,
 stearyl alc. 2, dialkyldimethylammonium chloride 2, polyoxyethylene
 stearyl ether 2, polyethylene oxide-propylene oxide ether with
 2,3-dihydroxypropyltrimethylammonium bromide [88385-90-4] 1,
 polypropylene oxide ether with 2,3-dihydroxypropyltrimethylammonium
 bromide and butanol [88293-21-4] 1, propylene glycol 8 and distd.
 H2O 82% and perfumes and colors.

IT 88292-01-7
 RL: BIOL (Biological study)
 (hair prepns. contg.)

RN 88292-01-7 HCAPLUS
 CN Poly(oxy-1,4-butanediyl), α -sulfo- ω -butoxy-, potassium
 salt (9CI) (CA INDEX NAME)



● K

IC A61K007-06
 CC 62-3 (Essential Oils and Cosmetics)
 IT 88088-94-2 88292-01-7 88293-21-4 88293-22-5
 88293-23-6 88385-89-1 88385-90-4 88385-91-5 88403-70-7
 88423-63-6
 RL: BIOL (Biological study)
 (hair prepns. contg.)

L29 ANSWER 6 OF 9 HCAPLUS COPYRIGHT 2005 ACS on STN
 1982:599869 Document No. 97:199869 Filtration-dewatering aids for
 aqueous slurries. (Kao Soap Co., Ltd., Japan). Jpn. Kokai Tokkyo
 Koho JP 57084708 A2 19820527 Showa, 5 pp. (Japanese). CODEN:
 JKXXAF. APPLICATION: JP 1980-162212 19801118.

AB Filtration-dewatering aids for aq. slurries of water-insol. metal hydroxides are prepd. from anionic surfactants $\text{RO(ZO)}_n\text{R}_1$ [R = C8-24 alkyl, alkenyl; Z = C2-4 alkylene; $\text{R}_1 = \text{SO}_3 \text{M}$ (M = H, K, Na, NH_4), PO_3M_1 , $\text{CH}_3\text{CO}_2\text{M}_1$ ($\text{M}_1 = \text{K}, \text{Na}$); $n = 1-100$]. Thus, a mixt. of 100 mL 1 M aq. NaOH and 60 g Al(OH)_3 , after 30 s, was suction-filtered at 500 mm for 3 min to give a cake, which was washed with 100 mL water (90°) contg. 100 ppm $\text{C}_{12}\text{H}_{25}\text{O(C}_2\text{H}_4\text{O)}_3\text{SO}_3\text{Na}$ (I) [13150-00-0] and suction-filtered (with air passage) at 500 mm for 3 min. The cake (50 g) was dried at 110° . Weighing of the cake at these stages showed that the water content in the cake before drying at 110° was 8.4%, compared with 12.0% when I was omitted.

IT 83574-34-9 83574-35-0 83574-36-1

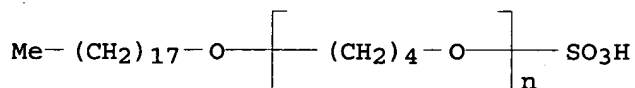
83574-37-2

RL: USES (Uses)

(aluminum hydroxide filtration in presence of, for improved dewatering of filter cake)

RN 83574-34-9 HCAPLUS

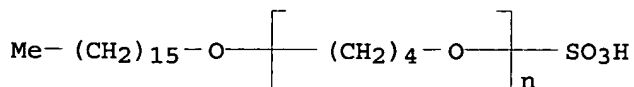
CN Poly(oxy-1,4-butanediyl), α -sulfo- ω -(octadecyloxy)-, sodium salt (9CI) (CA INDEX NAME)



● Na

RN 83574-35-0 HCAPLUS

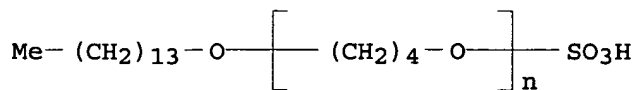
CN Poly(oxy-1,4-butanediyl), α -sulfo- ω -(hexadecyloxy)-, sodium salt (9CI) (CA INDEX NAME)



● Na

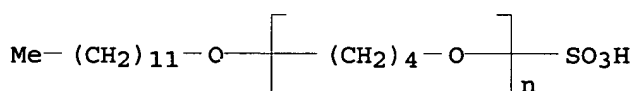
RN 83574-36-1 HCAPLUS

CN Poly(oxy-1,4-butanediyl), α -sulfo- ω -(tetradecyloxy)-, sodium salt (9CI) (CA INDEX NAME)



● Na

RN 83574-37-2 HCAPLUS
 CN Poly(oxy-1,4-butanediyl), α -sulfo- ω -(dodecyloxy)-,
 sodium salt (9CI) (CA INDEX NAME)



● Na

IC B01D021-01
 ICA C11D001-02
 CC 46-3 (Surface Active Agents and Detergents)

Section cross-reference(s): 49

IT	9004-82-4	13150-00-0	15826-21-8	36348-64-8	43168-25-8
	54717-42-9	64728-57-0	64939-56-6	74791-05-2	74791-09-6
	74812-85-4	74812-89-8	78900-96-6	78922-78-8	83566-71-6
	83566-72-7	83566-73-8	83566-74-9	83566-75-0	83566-76-1
	83566-77-2	83566-78-3	83566-79-4	83566-80-7	83566-81-8
	83566-82-9	83566-83-0	83566-84-1	83566-85-2	83574-34-9
	83574-35-0	83574-36-1	83574-37-2		
	83574-61-2	83582-33-6	83582-34-7	83582-35-8	83582-36-9
	83582-37-0	83582-38-1	83582-39-2	83582-40-5	83582-41-6
	83582-42-7	83582-43-8	83582-46-1	83582-47-2	83603-55-8
	83603-56-9	83603-57-0	83603-58-1		

RL: USES (Uses)

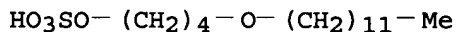
(aluminum hydroxide filtration in presence of, for improved
 dewatering of filter cake)

L29 ANSWER 7 OF 9 HCAPLUS COPYRIGHT 2005 ACS on STN
 1981:605790 Document No. 95:205790 Physicochemical properties of
 anionic surfactants with poly(oxyalkylene) group in water. Tsujii,
 Kaoru; Okahashi, Kenji; Takeuchi, Takashi (Tochigi Res. Lab., Kao
 Soap Co., Tochigi, Japan). Yukagaku, 30(9), 566-72 (Japanese) 1981.
 CODEN: YKGKAM. ISSN: 0513-398X.

AB The physicochem. properties are detd. for aq. solns. of Na salts of
 sulfate esters of alkoxyated C12-18 fatty alcs. contg. 1-8
 oxyalkylene groups/mol. The Krafft point is lower for surfactants
 contg. polyoxypropylene groups than for surfactants contg.
 polyoxyethylene groups. The surfactants have good compatibility
 with Ca²⁺ in water. The interfacial tensions between oil and the
 surfactant solns. are decreased by the addn. of CaCl₂ or MgSO₄.

Clouding similar to that in nonionic surfactant solns. is obsd. at high concns. of inorg. salts. The surfactants form addn. compds. with some zwitterionic surfactants in the hydrated solid phases below the Krafft points. The surfactants contg. polyoxyethylene groups have higher crit. micelle concns., compared with surfactants contg. polyoxypropylene and polyoxybutylene groups. The effects of the polyoxyethylene group on the crit. micelle concn. are discussed quant.

IT 3694-72-2
 RL: USES (Uses)
 (surfactant properties of)
 RN 3694-72-2 HCAPLUS
 CN 1-Butanol, 4-(dodecyloxy)-, hydrogen sulfate, sodium salt (7CI, 9CI)
 (CA INDEX NAME)



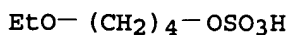
● Na

CC 46-1 (Surface Active Agents and Detergents)
 IT 3088-31-1 3694-72-2 13150-00-0 15826-16-1 43168-25-8
 51814-80-3 65423-83-8 74791-03-0 74791-04-1 74791-05-2
 74812-85-4 74812-89-8 79762-95-1 79777-32-5 79777-33-6
 RL: USES (Uses)
 (surfactant properties of)

L29 ANSWER 8 OF 9 HCAPLUS COPYRIGHT 2005 ACS on STN
 1978:530007 Document No. 89:130007 Polymerization of tetrahydrofuran by proton acids. Pruckmayr, G.; Wu, T. K. (Chem., Dyes Pigm. Dep., E. I. du Pont de Nemours and Co., Wilmington, DE, USA). Macromolecules, 11(4), 662-8 (English) 1978. CODEN: MAMOBX. ISSN: 0024-9297.

AB Polymn. of THF [109-99-9] with nonhydrolyzable protic acids such as CF₃SO₃H [1493-13-6] leads to very high mol. wt. polymers by a combination of chain coupling-ring opening steps. Hydrolyzable protic acids, e.g. HFSO₃ [7789-21-1], lead to polymeric species of lower mol. wt. through mono- and dialkyl sulfate formation. Sulfate formation is normally irreversible and slower than chain propagation, causing mol. wts. to go through a max. Such polymns. are not living, but are slowly dying, the rate of termination depending on the polymn. conditions.

IT 67767-21-9
 RL: PRP (Properties)
 (NMR of, as model compd. in polymn. of THF by proton acids)
 RN 67767-21-9 HCAPLUS
 CN 1-Butanol, 4-ethoxy-, hydrogen sulfate (9CI) (CA INDEX NAME)



CC 35-4 (Synthetic High Polymers)

IT 64-67-5 111-73-9 625-22-9 763-23-5 15507-13-8 67767-20-8
67767-21-9

RL: PRP (Properties)

(NMR of, as model compd. in polymn. of THF by proton acids)

L29 ANSWER 9 OF 9 HCAPLUS COPYRIGHT 2005 ACS on STN

1965:455578 Document No. 63:55578 Original Reference No. 63:10179e-f
The synthesis and some surface-active properties of alkylthioalkyl
and alkoxyalkyl sulfates. Livingston, J. R., Jr.; Drogin, Robert
(Esso Res. & Eng. Co., Linden, NJ). Journal of the American Oil
Chemists' Society, 42(8), 720-3 (English) 1965. CODEN: JAOCA7.
ISSN: 0003-021X.

AB Na alkylthio- and alkoxyalkyl sulfates were prepd. to det. the
effect of the presence, position, and nature of the heteroatom on
the crit. micelle concn. (c.m.c.), the surface activity, and
detergency of a surfactant. All of the compds. were linear and
contained a total of 16 C atoms. Hexadecyl sulfate was used as the
reference compd. Insertion of either a S or O atom into the
hydrocarbon chain raised the c.m.c. In the O series, the trend was
to a higher c.m.c. as the O atom was moved farther away from the
sulfate group, whereas no trend was observed in the thio ether
series. The surface activity of hexadecyl sulfate was higher than
either the ether or thio ether series. The farther the heteroatom
from the sulfate group, the lower was the surface activity. This
trend was more pronounced in the oxy ethers. All heterosubstituted
compds. were generally inferior to hexadecyl sulfate in detergency.
Hydration of the O atom in the oxy ethers, but not the S atom in the
thio ethers, is proposed as the explanation for the observed trends.

IT 3694-72-2, 1-Butanol, 4-(dodecyloxy)-, hydrogen sulfate
(ester), Na salt 3694-73-3, 1-Hexanol, 6-(decyloxy)-,
hydrogen sulfate, Na salt

(prepn. and surface-active properties of)

RN 3694-72-2 HCAPLUS

CN 1-Butanol, 4-(dodecyloxy)-, hydrogen sulfate, sodium salt (7CI, 9CI)
(CA INDEX NAME)

$\text{HO}_3\text{SO}-(\text{CH}_2)_4-\text{O}-(\text{CH}_2)_{11}-\text{Me}$

● Na

RN 3694-73-3 HCAPLUS

CN 1-Hexanol, 6-(decyloxy)-, hydrogen sulfate, sodium salt (7CI, 9CI)
(CA INDEX NAME)

$\text{HO}_3\text{SO}-(\text{CH}_2)_6-\text{O}-(\text{CH}_2)_9-\text{Me}$

● Na

CC 53 (Surface-Active Agents and Detergents)
 IT 3694-71-1, 1-Dodecanol, 12-butoxy-, hydrogen sulfate (ester), Na salt 3694-72-2, 1-Butanol, 4-(dodecyloxy)-, hydrogen sulfate (ester), Na salt 3694-73-3, 1-Hexanol, 6-(decyloxy)-, hydrogen sulfate, Na salt 3694-74-4, Ethanol, 2-(tetradecyloxy)-, hydrogen sulfate (ester), Na salt 3694-75-5, Ethanol, 2-(tetradecylthio)-, hydrogen sulfate (ester), Na salt 3694-76-6, 1-Undecanol, 11-(pentylthio)-, hydrogen sulfate (ester), Na salt 3694-77-7, 1-Butanol, 4-(dodecylthio)-, hydrogen sulfate (ester), Na salt 3694-78-8, 1-Hexanol, 6-(decylthio)-, hydrogen sulfate, Na salt
 (prepn. and surface-active properties of)

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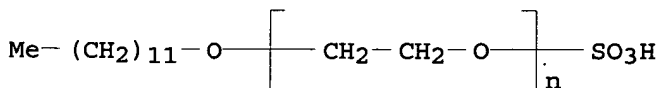
L43 ANSWER 1 OF 26 HCAPLUS COPYRIGHT 2005 ACS on STN
 2005:726262 Document No. 143:195610 Powder **detergent composition** containing anionic and nonionic **surfactants**, zeolite and alkali metal carbonate.. Inoue, Takumi; Hasumi, Motomitsu; Nishimura, Hiroshi; Iwamoto, Yoshihiro (Kao Corp., Japan). Jpn. Kokai Tokkyo Koho JP 2005213489 A2 20050811, 11 pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP 2004-25984 20040202.

AB ~~title compn. comprises:~~ (A) 12-30 wt.% anionic **surfactant**, R1-O-(EtO)m-SO3-M+ (R1=C8-18 straight/branched alkyl/alkenyl group, m=av. d.p. 0.5-4 (<50 wt.% of component with m=0), M+=Na+ or Ca2+); (B) 1-9 wt.% polyoxyalkylene nonionic **surfactant** with HLB 9-16; (C) 5-50 wt.% Zeolite; and (D) 5-50 wt.% alkali metal carbonate; (A)/(B)=5.7/4.3-9.67/0.33. Thus, odor-free **detergent** compn. was prepd. from polyethylene glycol, tetradecyl ether sodium sulfate 13, Emulgen 108KM 9, Zeobuilder 27, Dense Ash 14, sodium sulfate 12, and NaCl 4, showing high **detergency** and re-contamination resistance.

IT 9004-82-4 27731-62-0, Sodium poly(oxyethylene) tetradecyl ether sulfate 34431-26-0
 RL: TEM (Technical or engineered material use); USES (Uses) (powder **detergent** compn. contg. anionic and nonionic **surfactants**, zeolite and alkali metal carbonate)

RN 9004-82-4 HCAPLUS

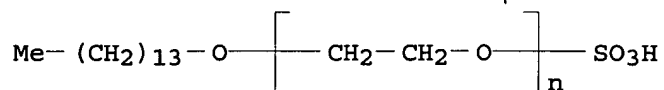
CN Poly(oxy-1,2-ethanediyl), α -sulfo- ω -(dodecyloxy)-, sodium salt (9CI) (CA INDEX NAME)



● Na

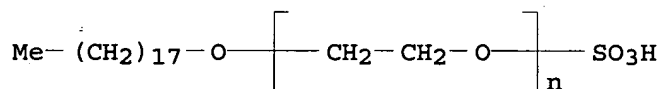
RN 27731-62-0 HCAPLUS

CN Poly(oxy-1,2-ethanediyl), α -sulfo- ω -(tetradecyloxy)-, sodium salt (9CI) (CA INDEX NAME)



● Na

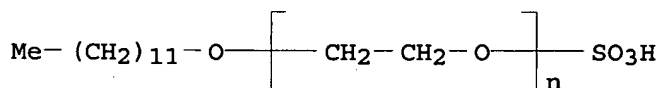
RN 34431-26-0 HCAPLUS
 CN Poly(oxy-1,2-ethanediyl), α -sulfo- ω -(octadecyloxy)-,
 sodium salt (9CI) (CA INDEX NAME)



● Na

IC ICM C11D001-29
 ICS C11D001-72; C11D003-10; C11D003-12; C11D017-06
 CC 46-3 (Surface Active Agents and Detergents)
 ST polyethylene glycol alkyl sulfate anionic **surfactant**
 zeolite **detergent** compn; polyoxyalkylene nonionic
surfactant carbonate powder **detergent** compn
 IT A zeolites
 RL: TEM (Technical or engineered material use); USES (Uses)
 (Zeobuilder; powder **detergent** compn. contg. anionic and
 nonionic **surfactants**, zeolite and alkali metal
 carbonate)
 IT Polyoxyalkylenes, uses
 RL: TEM (Technical or engineered material use); USES (Uses)
 (alkyl group-terminated; powder **detergent** compn. contg.
 anionic and nonionic **surfactants**, zeolite and alkali
 metal carbonate)
 IT **Surfactants**
 (anionic; powder **detergent** compn. contg. anionic and
 nonionic **surfactants**, zeolite and alkali metal
 carbonate)
 IT **Surfactants**
 (nonionic; powder **detergent** compn. contg. anionic and
 nonionic **surfactants**, zeolite and alkali metal
 carbonate)
 IT **Detergents**
 (powd.; powder **detergent** compn. contg. anionic and
 nonionic **surfactants**, zeolite and alkali metal
 carbonate)
 IT Polyoxyalkylenes, uses
 RL: TEM (Technical or engineered material use); USES (Uses)
 (powder **detergent** compn. contg. anionic and nonionic

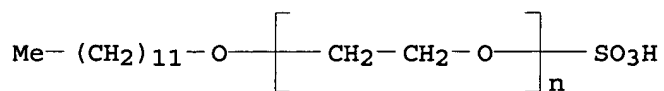
- surfactants**, zeolite and alkali metal carbonate)
- IT Polyoxyalkylenes, uses
 RL: TEM (Technical or engineered material use); USES (Uses)
 (sulfo-terminated; powder **detergent** compn. contg.
 anionic and nonionic **surfactants**, zeolite and alkali
 metal carbonate)
- IT 497-19-8, Dense Ash, uses
 RL: TEM (Technical or engineered material use); USES (Uses)
 (Dense Ash; powder **detergent** compn. contg. anionic and
 nonionic **surfactants**, zeolite and alkali metal
 carbonate)
- IT 7647-14-5, Sodium chloride, uses 7757-82-6, Sodium sulfate, uses
 9004-82-4 25322-68-3D, PEO, C12-14 alkyl ether
 27731-62-0, Sodium poly(oxyethylene) tetradecyl ether
 sulfate 34431-26-0 227015-79-4, Emulgen 108KM
 RL: TEM (Technical or engineered material use); USES (Uses)
 (powder **detergent** compn. contg. anionic and nonionic
surfactants, zeolite and alkali metal carbonate)
- L43 ANSWER 2 OF 26 HCAPLUS COPYRIGHT 2005 ACS on STN
 2002:846625 Document No. 137:312738 Synergistic **detergent**
composition containing dissolution enhancers and method for
 preparing the same. Dhanuka, Vinodkumar Ramniranjan; Dhalewadikar,
 Shashank Vaman (Hindustan Lever Limited, India). Indian IN 174044 A
 19940903, 25 pp. (English). CODEN: INXXAP. APPLICATION: IN
 1991-BO249 19910830.
- AB A synergistic **detergent** compn. comprising a
surfactant and from 0.05 to 5% by wt. of rate of dissoln.
 enhancer (RODEs) in the form of uniform layer or layers over the
surfactant. The incorporation of the RODEs surprisingly
 exhibit enhanced rate of dissoln.
- IT 9004-82-4, Sodium lauryl ether sulfate
 RL: TEM (Technical or engineered material use); USES (Uses)
 (dissoln. enhancer; synergistic **detergent** compn. contg.
 dissoln. enhancers and method for prepg. the same)
- RN 9004-82-4 HCAPLUS
- CN Poly(oxy-1,2-ethanediyl), α -sulfo- ω -(dodecyloxy)-,
 sodium salt (9CI) (CA INDEX NAME)



● Na

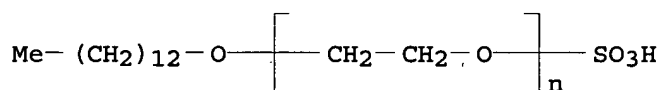
- IC ICM C11D001-12
- CC 46-3 (Surface Active Agents and Detergents)
- ST dissoln enhancer synergistic **detergent**
- IT Sulfonic acids, uses
 RL: TEM (Technical or engineered material use); USES (Uses)
 (1-alkenesulfonic, salts, dissoln. enhancer; synergistic
detergent compn. contg. dissoln. enhancers and method for

- prepg. the same)
- IT Sulfonic acids, uses
RL: TEM (Technical or engineered material use); USES (Uses)
(alkanesulfonic, salts, secondary, dissoln. enhancer; synergistic **detergent** compn. contg. dissoln. enhancers and method for prepg. the same)
- IT Polyoxyalkylenes, uses
RL: TEM (Technical or engineered material use); USES (Uses)
(dissoln. enhancer; synergistic **detergent** compn. contg. dissoln. enhancers and method for prepg. the same)
- IT **Surfactants**
(synergistic **detergent** compn. contg. dissoln. enhancers and method for prepg. the same)
- IT **Detergents**
(synergistic; synergistic **detergent** compn. contg. dissoln. enhancers and method for prepg. the same)
- IT **9004-82-4**, Sodium lauryl ether sulfate 25322-68-3, Polyethylene glycol.
RL: TEM (Technical or engineered material use); USES (Uses)
(dissoln. enhancer; synergistic **detergent** compn. contg. dissoln. enhancers and method for prepg. the same)
- L43 ANSWER 3 OF 26 HCAPLUS COPYRIGHT 2005 ACS on STN
2001:823346 Document No. 135:359419 Polyethylene glycol alkyl ether sulfates with narrow molecular weight distribution, their manufacture, and their liquid **detergent compositions** with good cleaning ability, foamability, and storage stability, and low skin irritation. Oyaizu, Takahisa; Oyama, Akira; Yoshiya, Masahisa; Nishio, Hiroshi (Lion Corp., Japan). Jpn. Kokai Tokkyo Koho JP 2001316352 A2 20011113, 11 pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP 2000-135804 20000509.
- AB R1O(CH2CH2)nSO3M (R1 = linear or branched C6-24 alkyl, alkenyl; n = av. 1-6; M = H, alkali metal ion, alk. earth metal ion, NH4+, C2-3 mono-, di-, trialkanolammonium), whose 55-75% have d.p. (nA - 1) to (nA + 1) (nA = peak d.p. in mol. wt. distribution curve), and which contain ≤30 ppm 1,4-dioxane, are manufd. by addn. of ethylene oxide to alcs. in the presence of Mg-based mixed metal oxides as alkoxylation catalysts, removing the catalysts, and sulfation. Thus, Conol 20P (n-dodecanol) and Diadol 13 (linear and branched tridecanol) were autoclaved with ethylene oxide in the presence of AlMgMnOx (x = valence), filtered, the filtrate sulfonated with SO3 in a thin-film reactor, and neutralized with aq. NaOH to give polyethylene glycol ether sulfate salt (65% of which showed d.p. 1-3) contg. 25 ppm dioxane.
- IT **9004-82-4P 54116-08-4P**
RL: IMF (Industrial manufacture); POF (Polymer in formulation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(oligomeric; manuf. of polyethylene glycol alkyl ether sulfates with narrow mol. wt. distribution and low dioxane content for liq. **detergents**)
- RN 9004-82-4 HCAPLUS
CN Poly(oxy-1,2-ethanediyl), α-sulfo-ω-(dodecyloxy)-, sodium salt (9CI) (CA INDEX NAME)



● Na

RN 54116-08-4 HCAPLUS
 CN Poly(oxy-1,2-ethanediyl), α -sulfo- ω -(tridecyloxy)-,
 sodium salt (9CI) (CA INDEX NAME)



● Na

IC ICM C07C305-06
 ICS A61K007-075; C07C303-24; C11D001-29; C11D001-75; C11D001-90;
 C11D017-08; C07B061-00
 CC 46-3 (Surface Active Agents and Detergents)
 ST **detergent** polyethylene glycol ether sulfate manuf;
 alkoxylation catalyst magnesium aluminum manganese oxide; metal
 oxide catalyst liq **detergent** manuf; mol wt distribution
 narrow **detergent** manuf; dioxane byproduct polyethylene
 glycol sulfate manuf
 IT Sulfonates
 RL: TEM (Technical or engineered material use); USES (Uses)
 (1-alkene, C14, sodium salts; manuf. of polyethylene glycol alkyl
 ether sulfates with narrow mol. wt. distribution and low dioxane
 content for liq. **detergents**)
 IT **Detergents**
 (liq.; manuf. of polyethylene glycol alkyl ether sulfates with
 narrow mol. wt. distribution and low dioxane content for liq.
detergents)
 IT Alkoxylation catalysts
 Sulfation
 (manuf. of polyethylene glycol alkyl ether sulfates with narrow
 mol. wt. distribution and low dioxane content for liq.
detergents)
 IT Group VIB element compounds
 Group VIIB element compounds
 Group VIII element compounds
 RL: CAT (Catalyst use); USES (Uses)
 (mixed metal oxides; manuf. of polyethylene glycol alkyl ether
 sulfates with narrow mol. wt. distribution and low dioxane
 content for liq. **detergents**)
 IT 123-91-1P, Dioxane, preparation
 RL: BYP (Byproduct); PREP (Preparation)
 (manuf. of polyethylene glycol alkyl ether sulfates with narrow

- mol. wt. distribution and low dioxane content for liq. **detergents**)
- IT 66578-96-9P, Aluminum magnesium manganese oxide
RL: CAT (Catalyst use); IMF (Industrial manufacture); PREP (Preparation); USES (Uses)
(manuf. of polyethylene glycol alkyl ether sulfates with narrow mol. wt. distribution and low dioxane content for liq. **detergents**)
- IT 7446-11-9, Sulfur trioxide, reactions
RL: RCT (Reactant); RACT (Reactant or reagent)
(manuf. of polyethylene glycol alkyl ether sulfates with narrow mol. wt. distribution and low dioxane content for liq. **detergents**)
- IT 98-11-3D, Benzenesulfonic acid, alkylated, sodium salts, uses
1643-20-5, Lauryldimethylamine oxide 4292-10-8
RL: TEM (Technical or engineered material use); USES (Uses)
(manuf. of polyethylene glycol alkyl ether sulfates with narrow mol. wt. distribution and low dioxane content for liq. **detergents**)
- IT 9004-82-4P 54116-08-4P
RL: IMF (Industrial manufacture); POF (Polymer in formulation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(oligomeric; manuf. of polyethylene glycol alkyl ether sulfates with narrow mol. wt. distribution and low dioxane content for liq. **detergents**)

L43 ANSWER 4 OF 26 HCAPLUS COPYRIGHT 2005 ACS on STN

2000:314423 Document No. 132:323321 **Detergent**

compositions containing taurate salts. Abe, Koji; Miyahara, Reiichi; Nanba, Tomiyuki; Akutsu, Takahiro; Fukuda, Toshio (Shiseido Company Limited, Japan). Eur. Pat. Appl. EP 999260 A2 20000510, 31 pp. DESIGNATED STATES: R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO. (English). CODEN: EPXXDW. APPLICATION: EP 1999-119787 19991006. PRIORITY: JP 1998-285269 19981007; JP 1998-285270 19981007; JP 1998-285271 19981007.

- AB The object of the present invention is to provide a **detergent** compn. which foams well and has superior usability without leaving sliminess after use. The present invention is a **detergent** compn. which characteristically contains (1) an alkali metal N-methyltaurate salt or an org. alkali N-methyltaurate salt of N-acylmethyltaurine, N-acyltaurine, alkylsulfuric ester, alkyl ether sulfuric ester, or alkylsulfonic acid; (2) an alkali metal hypotaurate salt or an org. alkali hypotaurate salt of N-acylmethyltaurine, N-acyltaurine, alkylsulfuric ester, alkyl ether sulfuric ester, or alkylsulfonic acid; or (3) an alkali metal taurate salt or an org. alkali taurate salt of N-acylmethyltaurine, N-acyltaurine, alkylsulfuric ester, alkyl ether sulfuric ester, or alkylsulfonic acid.

- IT 266994-15-4 266994-16-5 266994-25-6
266994-26-7

RL: TEM (Technical or engineered material use); USES (Uses)
(**detergent** compns. contg. taurate salts)

RN 266994-15-4 HCAPLUS

CN Ethanesulfonic acid, 2-(methylamino)-, monosodium salt, compd. with

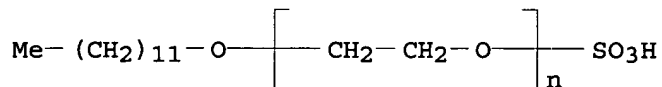
α -sulfo- ω -(dodecyloxy)poly(oxy-1,2-ethanediyl) (1:1)
(9CI) (CA INDEX NAME)

CM 1

CRN 26183-44-8

CMF (C2 H4 O)_n C12 H26 O4 S

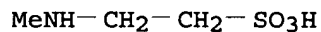
CCI PMS



CM 2

CRN 4316-74-9

CMF C3 H9 N O3 S . Na



● Na

RN 266994-16-5 HCAPLUS

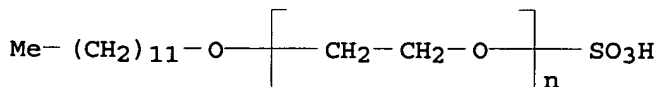
CN Ethanesulfonic acid, 2-(methylamino)-, compd. with
2,2',2''-nitrilotris[ethanol] and α -sulfo- ω -
(dodecyloxy)poly(oxy-1,2-ethanediyl) (1:1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 26183-44-8

CMF (C2 H4 O)_n C12 H26 O4 S

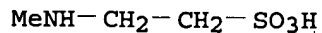
CCI PMS



CM 2

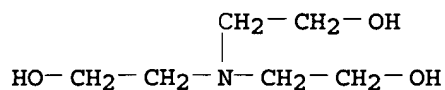
CRN 107-68-6

CMF C3 H9 N O3 S



CM 3

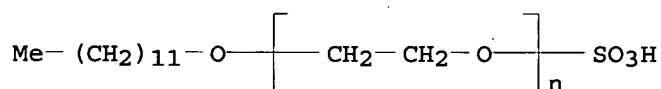
CRN 102-71-6
CMF C6 H15 N O3



RN 266994-25-6 HCAPLUS
CN Ethanesulfonic acid, 2-amino-, monosodium salt, compd. with
 α -sulfo- ω -(dodecyloxy)poly(oxy-1,2-ethanediyl) (1:1)
(9CI) (CA INDEX NAME)

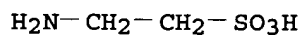
CM 1

CRN 26183-44-8
CMF (C2 H4 O)_n C12 H26 O4 S
CCI PMS



CM 2

CRN 7347-25-3
CMF C2 H7 N O3 S . Na

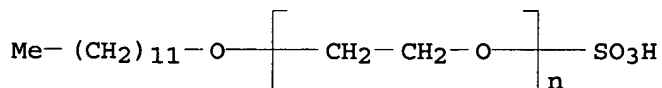


● Na

RN 266994-26-7 HCAPLUS
CN Ethanesulfonic acid, 2-amino-, compd. with 2,2',2''-
nitrilotris[ethanol] and α -sulfo- ω -(dodecyloxy)poly(oxy-
1,2-ethanediyl) (1:1:1) (9CI) (CA INDEX NAME)

CM 1

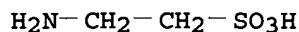
CRN 26183-44-8
CMF (C2 H4 O)_n C12 H26 O4 S
CCI PMS



CM 2

CRN 107-35-7

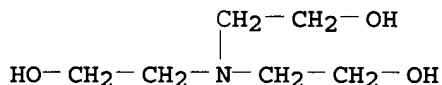
CMF C2 H7 N O3 S



CM 3

CRN 102-71-6

CMF C6 H15 N O3



IC ICM C11D001-88

ICS C11D001-37; C11D001-28

CC 46-3 (Surface Active Agents and Detergents)

ST taurate salt **detergent** foamabilityIT **Detergents****Shampoos**

(detergent compns. contg. taurate salts)

IT 266994-11-0 266994-12-1 266994-13-2 266994-14-3

266994-15-4 266994-16-5 266994-17-6

266994-18-7 266994-19-8 266994-20-1 266994-21-2 266994-22-3

266994-23-4 266994-24-5 **266994-25-6 266994-26-7**

266994-27-8 266994-28-9 266994-29-0 266994-30-3

RL: TEM (Technical or engineered material use); USES (Uses)

(detergent compns. contg. taurate salts)

L43 ANSWER 5 OF 26 HCAPLUS COPYRIGHT 2005 ACS on STN

2000:281194 Document No. 133:6180 Optimization of ATP bioluminescence technique in detection of microbial contamination in

surfactants and personal hygiene and **detergent****formulations.** Gonzalez, X.; Cid, I.; Castan, P.; Prat, A.

(Kao Chemicals Europe, S.L., Barbera del Valles, 08210, Spain).

Comunicaciones presentadas a la Jornadas del Comité Espanol de la

Detergencia, 30, 93-104 (Spanish) 2000. CODEN: CJCDD7. ISSN:

0212-7466. Publisher: Comité Espanol de la Detergencia,

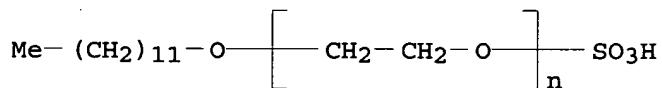
Tensioactivos y Afines.

AB **Surfactant** inhibitor effects in detn. of microbialcontamination in **detergent** formulations by ATP

bioluminescence were resolved by introducing modifications of the

anal. method, i.e., incubation of samples in a neutralizing medium for 3 h. The incubation period does not allow reprodn. but favors bacterial growth and ATP synthesis, which allows for improved detection of microorganisms. Various com. **detergents** were used including formulations contg. sodium laureth sulfate, cocamidopropyl betaine, styrene-acrylate copolymers, sodium lauryl sulfate, Octoxynol-9, liq. **soaps**, etc. The test microorganisms included *Pseudomonas aeruginosa*, *Escherichia coli*, *Citrobacter freundii*, *Pseudomonas putida*, *Serratia marcescens*, *Enterobacter gergoviae*, *Serratia rubidaea*, *Enterobacter amnigenus*, *Klebsiella pneumoniae*, and *Pseudomonas fluorescens*. With these modifications, it was possible to detect contaminations of about 105 ufc/mL, or even less, if the sample was incubated for a short period of time. This redn. in testing time to a few hours is important in prodn. and trade logistics, for both incoming raw materials and finished goods.

IT **9004-82-4**, Sodium laureth sulfate
 RL: AMX (Analytical matrix); ANST (Analytical study)
 (incubation time to enhance ATP vol. for detection by
 bioluminescence in detection of microbial contamination of
detergents and soaps)
 RN **9004-82-4** HCAPLUS
 CN Poly(oxy-1,2-ethanediyl), α -sulfo- ω -(dodecyloxy)-,
 sodium salt (9CI) (CA INDEX NAME)



● Na

CC **46-3** (Surface Active Agents and Detergents)
 Section cross-reference(s): 9, 62
 ST **detergent** microbial contamination detection ATP
 bioluminescence; **soap** contamination bacterium incubation
 growth ATP synthesis
 IT Betaines
 RL: AMX (Analytical matrix); ANST (Analytical study)
 (cocamidopropyl derivs.; incubation time to enhance ATP vol. for
 detection by bioluminescence in detection of microbial
 contamination of **detergents and soaps**)
 IT **Detergents**
 Microorganism
Surfactants
 (incubation time to enhance ATP vol. for detection by
 bioluminescence in detection of microbial contamination of
detergents and soaps)
 IT **Soaps**
 RL: AMX (Analytical matrix); ANST (Analytical study)
 (liq.; incubation time to enhance ATP vol. for detection by
 bioluminescence in detection of microbial contamination of
detergents and soaps)

IT 100-42-5D, Styrene, polymers with acrylates 151-21-3, Sodium lauryl sulfate, analysis 9004-82-4, Sodium laureth sulfate 9036-19-5, Octoxynol-9

RL: AMX (Analytical matrix); ANST (Analytical study)
(incubation time to enhance ATP vol. for detection by bioluminescence in detection of microbial contamination of **detergents and soaps**)

IT 56-65-5, Adenosine 5'-(tetrahydrogen triphosphate), analysis

RL: ANT (Analyte); ANST (Analytical study)
(incubation time to enhance ATP vol. for detection by bioluminescence in detection of microbial contamination of **detergents and soaps**)

L43 ANSWER 6 OF 26 HCAPLUS COPYRIGHT 2005 ACS on STN

2000:233975 Document No. 132:252820 Polyhydric alcohol hydroxyalkyl ether sulfates, anionic **surfactants**, and **detergent compositions** with good biodegradability, foaming property, and low irritation. Takahashi, Masatoshi; Toda, Haruhiko; Yokoi, Kenji (Lion Corp., Japan). Jpn. Kokai Tokkyo Koho JP 2000103777 A2 20000411, 8 pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP 1998-278604 19980930.

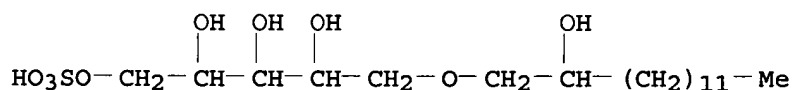
AB Title compns., useful for dishes, hair, body, etc., contain R(X)O(A)nOSO₃M [R = C₆-26 alkyl; X = CH(OH)CH₂, C(CH₂OH)H; A = C₄-8 polyhydric alc. residue; M = H, salt-forming cation; n = 1-5] as anionic **surfactants**. Thus, reaction of hydroxylauryl erythritol ether with Na Et sulfate in the presence of H₂SO₄ gave 96% hydroxylauryl erythritol ether Na sulfate, which showed good **detergency**, foaming, and low skin irritation.

IT 262845-00-1P 262845-01-2P

RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(prepn. of hydroxyalkyl polyhydric alc. ether sulfates as anionic **surfactants** for **detergents** with good biodegradability, foaming property, and low irritation)

RN 262845-00-1 HCAPLUS

CN Pentitol, 1-O-(2-hydroxytetradecyl)-, 5-(hydrogen sulfate), monosodium salt (9CI) (CA INDEX NAME)

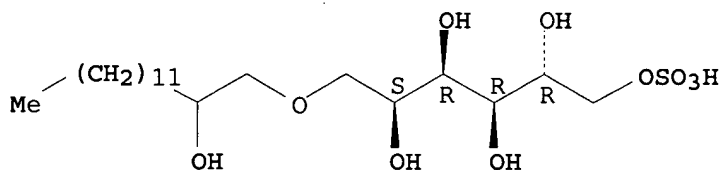


● Na

RN 262845-01-2 HCAPLUS

CN D-Glucitol, 1-O-(2-hydroxytetradecyl)-, 6-(hydrogen sulfate), monosodium salt (9CI) (CA INDEX NAME)

Absolute stereochemistry.



● Na

- IC ICM C07C305-10
ICS A61K007-075; A61K007-50; C11D001-16
- CC 46-3 (Surface Active Agents and Detergents)
Section cross-reference(s): 23
- ST polyhydric alc hydroxyalkyl ether sulfate **surfactant**;
anionic **surfactant** polyol hydroxyalkyl ether sulfate;
hydroxylauryl erythritol ether sulfate **surfactant**
detergent
- IT **Surfactants**
(anionic; prepn. of hydroxyalkyl polyhydric alc. ether sulfates
as anionic **surfactants** for **detergents** with
good biodegradability, foaming property, and low irritation)
- IT Cosmetics
(cleansing; prepn. of hydroxyalkyl polyhydric alc.
ether sulfates as anionic **surfactants** for
detergents with good biodegradability, foaming property,
and low irritation)
- IT **Detergents**
Shampoos
(prepn. of hydroxyalkyl polyhydric alc. ether sulfates as anionic
surfactants for **detergents** with good
biodegradability, foaming property, and low irritation)
- IT 262844-99-5P 262845-00-1P 262845-01-2P
RL: IMF (Industrial manufacture); TEM (Technical or engineered
material use); PREP (Preparation); USES (Uses)
(prepn. of hydroxyalkyl polyhydric alc. ether sulfates as anionic
surfactants for **detergents** with good
biodegradability, foaming property, and low irritation)
- IT 262845-02-3 262845-03-4 262845-04-5
RL: RCT (Reactant); RACT (Reactant or reagent)
(prepn. of hydroxyalkyl polyhydric alc. ether sulfates as anionic
surfactants for **detergents** with good
biodegradability, foaming property, and low irritation)

L43 ANSWER 7 OF 26 HCAPLUS COPYRIGHT 2005 ACS on STN
1999:271468 Document No. 130:313496 Aqueous and non-aqueous heavy duty
liquid **detergent compositions** comprising
mid-chain branched **surfactants**. Vinson, Phillip Kyle;
Cripe, Thomas Anthony; Scheper, William Michael; Stidham, Robert
Emerson; Connor, Daniel Stedham (The Procter & Gamble Company, USA).
PCT Int. Appl. WO 9919450 A1 19990422, 94 pp. DESIGNATED STATES:
W: BR, CA, CN, CZ, CZ, JP, MX, US; RW: AT, BE, CH, CY, DE, DK, ES,
FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE. (English). CODEN:

PIXXD2. APPLICATION: WO 1998-US21678 19981014. PRIORITY: US 1997-61924 19971014.

AB Aq. and non-aq., heavy duty liq. laundry **detergent** compns. essentially include a branched **surfactant** mixt. which comprises mid-chain branched and linear **surfactant** compds., the linear compds. being 25-70% of the branched **surfactant** mixt., and a nonaq. or aq. liq. carrier. The mid-chain branched **surfactant** compds. are of the formula: Ab-B, where Ab is a hydrophobic moiety having from about 10 to about 18 total carbons divided between a longest chain and at least one short chain, the longest chain being in the range of from about 9 to about 17 carbon atoms, there being one or more C1-3 alkyl moieties branching from the longest chain, provided that at least one of the branching alkyl moieties is attached directly to a carbon of the longest linear carbon chain at a position within the range of position 3 carbon, counting from carbon #1 which is attached to the - B moiety, to position $\omega - 2$ carbon, wherein ω is the terminal carbon. B is a hydrophilic moiety selected from the group consisting of OSO₃M, (EO/PO)mOSO₃M, (EO/PO)mOH and mixts. thereof, wherein EO/PO are alkoxy moieties selected from the group consisting of ethoxy, propoxy, and mixts. thereof, wherein m is at least about 0.01 to about 30 and M is hydrogen or a salt forming cation. Provided that the av. total no. of carbon atoms in the Ab moiety in the branched **surfactant** mixt. is within the range of greater than 12 to about 14.5.

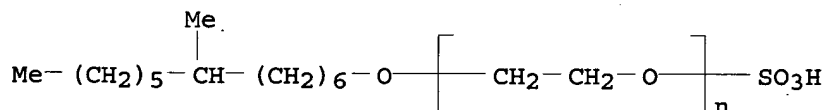
IT 223409-08-3P

RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(aq. and non-aq. heavy duty liq. **detergent** compns. comprising mid-chain branched **surfactants**)

RN 223409-08-3 HCAPLUS

CN Poly(oxy-1,2-ethanediyl), α -sulfo- ω -[(7-methyltridecyl)oxy]-, sodium salt (9CI) (CA INDEX NAME)



● Na

IC ICM C11D003-39

ICS C11D003-43; C11D001-65; C11D001-835

CC 46-3 (Surface Active Agents and Detergents)

ST midchain branched **surfactant** liq cleaning compn

IT **Surfactants**

(anionic; aq. and non-aq. heavy duty liq. **detergent** compns. comprising mid-chain branched **surfactants**)

IT **Surfactants**

(cationic; aq. and non-aq. heavy duty liq. **detergent** compns. comprising mid-chain branched **surfactants**)

IT Alcohols, uses

RL: TEM (Technical or engineered material use); USES (Uses)
(ethoxylated, mid-chain branched primary; aq. and non-aq. heavy
duty liq. **detergent** compns. comprising mid-chain
branched **surfactants**)

IT **Detergents**

(nonaq., liq., heavy-duty; aq. and non-aq. heavy duty liq.
detergent compns. comprising mid-chain branched
surfactants)

IT **Surfactants**

(nonionic; aq. and non-aq. heavy duty liq. **detergent**
compns. comprising mid-chain branched **surfactants**)

IT 68760-65-6P, 6-(Hydroxyhexyl)triphenylphosphonium bromide
223409-05-0P 223409-06-1P 223409-11-8P

RL: IMF (Industrial manufacture); RCT (Reactant); PREP
(Preparation); RACT (Reactant or reagent)
(aq. and non-aq. heavy duty liq. **detergent** compns.
comprising mid-chain branched **surfactants**)

IT **223409-08-3P**

RL: IMF (Industrial manufacture); TEM (Technical or engineered
material use); PREP (Preparation); USES (Uses)
(aq. and non-aq. heavy duty liq. **detergent** compns.
comprising mid-chain branched **surfactants**)

IT 603-35-0, Triphenylphosphine, reactions 4286-55-9,
6-Bromo-1-hexanol

RL: RCT (Reactant); RACT (Reactant or reagent)
(aq. and non-aq. heavy duty liq. **detergent** compns.
comprising mid-chain branched **surfactants**)

IT 98-11-3D, Benzenesulfonic acid, linear alkyl derivs., sodium salts,
uses 7664-93-9D, Sulfuric acid, ethoxylated mid-chain branched
primary alkyl esters, sodium salts, uses 7664-93-9D, Sulfuric
acid, mid-chain branched primary alkyl esters, uses

RL: TEM (Technical or engineered material use); USES (Uses)
(aq. and non-aq. heavy duty liq. **detergent** compns.
comprising mid-chain branched **surfactants**)

L43 ANSWER 8 OF 26 HCAPLUS COPYRIGHT 2005 ACS on STN

1999:207228 Document No. 130:283710 Nonirritating **surfactants**
with excellent solubility in water and **detergent**
compositions containing them. Yokoi, Kenji; Takahashi,
Masatoshi (Lion Corp., Japan). Jpn. Kokai Tokkyo Koho JP 11080783
A2 19990326 Heisei, 8 pp. (Japanese). CODEN: JKXXAF. APPLICATION:
JP 1997-250056 19970829.

AB The **surfactants** represented by

$R1CH[O(AO)nX]CH2OR2OCH2CHR1O(AO)nSO3M$ or
 $R3OCH2CH[O(AO)nX]CH2OR4OCH2CH(CH2OR3)O(AO)nSO3M$ ($R1, R3$ = aliph. or
arom. group; $R2, R4$ = bivalent aliph. group; AO = lower alkyleneoxy;
 X = H, lower alkyl; M = H, salt-forming cation; n = 1-20) are prepd.
Thus, 49 g 1,8-bis(decyloxymethyl)-3,6-dioxaoctane-1,8-diol was
treated with 59 g ethylene oxide in the presence of KOH and then the
resulting product was further treated with SO_3 and neutralized with
NaOH to give $C10H21OCH2CH[O(C2H4O)nH]CH2OC2H4OCH2CH(CH2OC10H21)O(C2H4O)nSO3Na$ (n = 6.5) showing good soly. in H_2O and good stability of
its aq. soln. A mild **shampoo** with good foamability was
prepd. by the use of the **surfactant**.

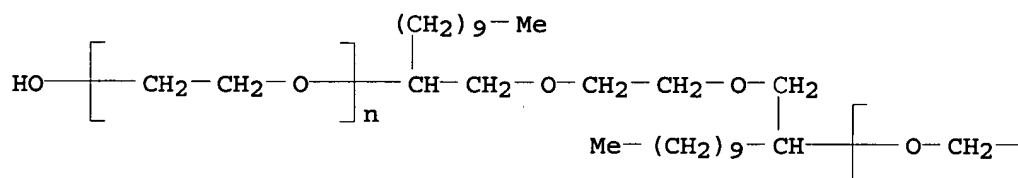
IT **222532-73-2P**, Ethoxylated 1,8-didecyl-3,6-dioxaoctane-1,8-
diol, monosulfate, sodium salt **222532-74-3P**, Ethoxylated

1,11-didecyl-3,6,9-trioxa-1,11-undecanediol, monosulfate, sodium salt **222532-75-4P**, Ethoxylated 1,11-didodecyl-3,6,9-trioxa-1,11-undecanediol, monoethyl ether, monosulfate, sodium salt
 RL: IMF (Industrial manufacture); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
 (nonirritating **surfactants** with good soly. in water for **detergent** compns.)

RN 222532-73-2 HCAPLUS

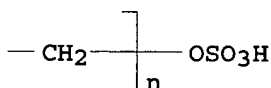
CN Poly(oxy-1,2-ethanediyl), ω -hydroxy- ω' -(sulfooxy)- α, α' -[1,2-ethanediylbis[oxy(1-decyl-2,1-ethanediyl)]]bis-, monosodium salt (9CI) (CA INDEX NAME)

PAGE 1-A



● Na

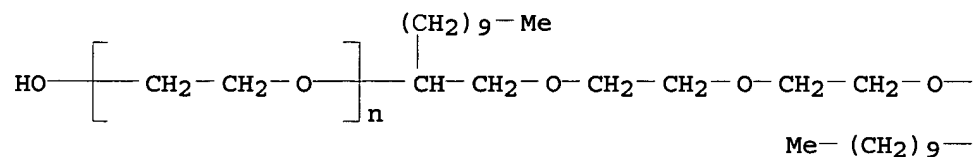
PAGE 1-B



RN 222532-74-3 HCAPLUS

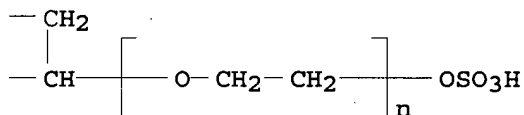
CN Poly(oxy-1,2-ethanediyl), ω -hydroxy- ω' -(sulfooxy)- α, α' -[oxybis[2,1-ethanediyl]oxy(1-decyl-2,1-ethanediyl)]]bis-, monosodium salt (9CI) (CA INDEX NAME)

PAGE 1-A



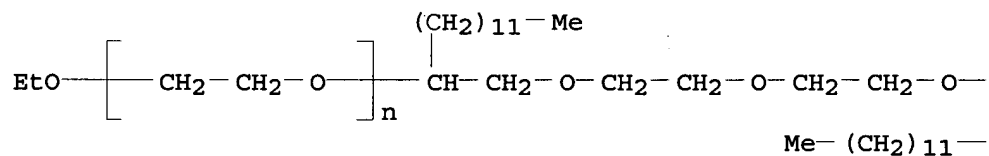
● Na

PAGE 1-B



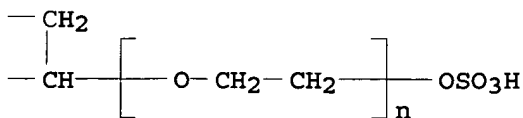
RN 222532-75-4 HCAPLUS
 CN Poly(oxy-1,2-ethanediyl), ω-ethoxy-ω'-(sulfooxy)-
 α,α'-[oxybis[2,1-ethanediyl]oxy(1-dodecyl-2,1-ethanediyl)]]bis-, sodium salt (9CI) (CA INDEX NAME)

PAGE 1-A



● Na

PAGE 1-B

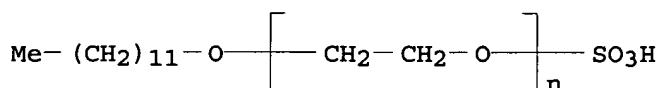


- IC ICM C11D001-29
ICS B01F017-04; B01F017-42; A61K007-075; A61K007-50
- CC 46-3 (Surface Active Agents and Detergents)
Section cross-reference(s): 62
- ST nonirritating **surfactant** polyoxyalkylene sulfate manuf;
shampoo surfactant polyoxyalkylene sulfate
foamability
- IT **Detergents**
(dishwashing; nonirritating **surfactants** with good soly.
in water for **detergent** compns.)
- IT **Shampoos**
Surfactants
(nonirritating **surfactants** with good soly. in water for
detergent compns.)
- IT 222532-73-2P, Ethoxylated 1,8-didecyl-3,6-dioxaoctane-1,8-
diol, monosulfate, sodium salt 222532-74-3P, Ethoxylated
1,11-didecyl-3,6,9-trioxa-1,11-undecanediol, monosulfate, sodium
salt 222532-75-4P, Ethoxylated 1,11-didodecyl-3,6,9-trioxa-
1,11-undecanediol, monoethyl ether, monosulfate, sodium salt
222532-76-5P, Ethoxylated 1,8-bis(decyloxymethyl)-3,6-dioxaoctane-
1,8-diol, monosulfate, sodium salt 222532-77-6P, Ethoxylated
1,11-bis(dodecyloxymethyl)-3,6,9-trioxa-1,11-undecanediol, monoethyl
ether, monosulfate, sodium salt 222532-78-7P, Ethoxylated
1,11-bis(dodecyloxymethyl)-3,6,9-trioxa-1,11-undecanediol,
monosulfate, sodium salt 222622-43-7P, Ethoxylated propoxylated
1,9-didodecyl-3,7-dioxanonane-1,9-diol, monosulfate, sodium salt
222622-46-0P, Ethoxylated propoxylated 1,8-bis(octyloxymethyl)-3,6-
dioxaoctane-1,8-diol, monosulfate, sodium salt
RL: IMF (Industrial manufacture); PRP (Properties); TEM (Technical
or engineered material use); PREP (Preparation); USES (Uses)
(nonirritating **surfactants** with good soly. in water for
detergent compns.)
- L43 ANSWER 9 OF 26 HCAPLUS COPYRIGHT 2005 ACS on STN
1999:106949 Document No. 130:198155 Preparation of (amidoalkyl)amino
carboxylic acids and **surfactant** and **detergent**
compositions containing them. Wakui, Tsugio; Kawashima,
Akiko; Okano, Tomomichi; Nishida, Shigeo (Lion Akzo K. K., Japan;
Lion Corp.). Jpn. Kokai Tokkyo Koho JP 11035537 A2 19990209 Heisei,
9 pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP 1997-194213
19970718.
- AB RCONH(CH₂)_mNH(CH₂)_nCO₂M (I; R = C₅-21 alkyl, alkenyl; m = 2-8; n =
1-2; M = H, alkali metal, NH₄, C₂-3 alkanol- or C₁-5
alkyl-substituted ammonium, basic amino acid) are prepd. by ring
opening of cyclic amidines (prepd. from aliph. nitriles and
diamines) in the presence of H₂O, reaction with (a) halo carboxylic
acids or their salts, (b) acrylic acid lower alc. esters, or (c)
acrylonitrile, and optional hydrolysis. Thus, 2-undecyl-4,5-
dihydroimidazole was heated in aq. EtOH at 80° for 2 h and
treated with ClCH₂CO₂Na in the presence of NaOH for 4.5 h to give I
(R = C₁₁H₂₃, m = 2, n = 1, M = Na), 10 parts of which was mixed with
5 parts polyoxyethylene lauryl ether and H₂O to 100 parts to give a
compn. showing good fluidity, transparency, foamability, and
detergency and no skin irritation.
- IT 9004-82-4, Polyoxyethylene lauryl ether sodium sulfate

RL: TEM (Technical or engineered material use); USES (Uses)
(prepn. of (amidoalkyl)amino carboxylic acids as
surfactants for detergents contg.)

RN 9004-82-4 HCAPLUS

CN Poly(oxy-1,2-ethanediyl), α -sulfo- ω -(dodecyloxy)-,
sodium salt (9CI) (CA INDEX NAME)



● Na

IC ICM C07C233-36

ICS C07C231-12; C07C233-38; C11D001-10

CC 46-3 (Surface Active Agents and Detergents)

Section cross-reference(s): 23, 62

ST amidoalkylamino carboxylic acid prepn **surfactant detergent**

IT Nitriles, reactions

RL: RCT (Reactant); RACT (Reactant or reagent)
(aliph.; prepn. of (amidoalkyl)amino carboxylic acids as
surfactants for detergents)

IT **Surfactants**

(amphoteric; prepn. of (amidoalkyl)amino carboxylic acids as
surfactants for detergents)

IT **Surfactants**

(anionic; prepn. of (amidoalkyl)amino carboxylic acids as
surfactants for detergents contg.)

IT Amidines

RL: IMF (Industrial manufacture); RCT (Reactant); PREP
(Preparation); RACT (Reactant or reagent)
(cyclic; prepn. of (amidoalkyl)amino carboxylic acids as
surfactants for detergents)

IT Amines, reactions

RL: RCT (Reactant); RACT (Reactant or reagent)
(diamines; prepn. of (amidoalkyl)amino carboxylic acids as
surfactants for detergents)

IT Carboxylic acids, reactions

RL: RCT (Reactant); RACT (Reactant or reagent)
(halo; prepn. of (amidoalkyl)amino carboxylic acids as
surfactants for detergents)

IT Ring opening

(in prepn. of (amidoalkyl)amino carboxylic acids as
surfactants for detergents)

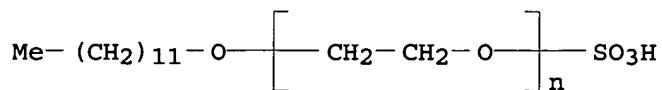
IT **Detergents**

(prepn. of (amidoalkyl)amino carboxylic acids as
surfactants for detergents)

IT 10443-61-5P 46843-77-0P 88097-29-4P

RL: IMF (Industrial manufacture); RCT (Reactant); PREP
(Preparation); RACT (Reactant or reagent)
(prepn. of (amidoalkyl)amino carboxylic acids as

- surfactants for detergents)**
- IT 220834-33-3P
RL: IMF (Industrial manufacture); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prepn. of (amidoalkyl)amino carboxylic acids as
surfactants for detergents)
- IT 220834-30-0P 220834-31-1P 220834-32-2P
RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(prepn. of (amidoalkyl)amino carboxylic acids as
surfactants for detergents)
- IT 107-13-1, 2-Propenenitrile, reactions 107-15-3, Ethylenediamine, reactions 109-76-2, 1,3-Propanediamine 140-88-5 629-63-0, Myristonitrile 2437-25-4, Lauronitrile 3926-62-3, Sodium monochloroacetate
RL: RCT (Reactant); RACT (Reactant or reagent)
(prepn. of (amidoalkyl)amino carboxylic acids as
surfactants for detergents)
- IT 9004-82-4, Polyoxyethylene lauryl ether sodium sulfate 29963-33-5, Sodium α -tetradecenesulfonate
RL: TEM (Technical or engineered material use); USES (Uses)
(prepn. of (amidoalkyl)amino carboxylic acids as
surfactants for detergents contg.)
- L43 ANSWER 10 OF 26 HCAPLUS COPYRIGHT 2005 ACS on STN
1998:221078 Document No. 128:245472 Mild cleansing bar
compositions. Jaworski, Robert J.; Park, Debra A. (Dial Corp., USA). PCT Int. Appl. WO 9814559 A1 19980409, 26 pp.
DESIGNATED STATES: W: CA, GB, ID, IL, KR, MX. (English). CODEN: PIXXD2. APPLICATION: WO 1997-US17993 19971002. PRIORITY: US 1996-726089 19961004.
- AB A transparent cleansing bar compn. comprises 10-45% of a synthetic **detergent** with a major portion of the **detergent** being a sulfated ethoxylated long chain alkyl alc. of the formula $R(OCH_2CH_2)_nSO_3X$ wherein R is an alkyl group having 12-16 carbon atoms, n is 2 or 3, and X is an alkali metal or alk. earth metal; 10-30% of a polyhydric alc. $H(OCH_2CH_2)_nOH$ wherein n has an av. value of 6 to 16; 15-30% of a water sol. **soap**, wherein the ratio of the **soap** to the synthetic **detergent** ranges 1:1 to about 1:2; 5-20% of a fatty acid alkanolamide; 0-15% of an alkyl sarcosinic acid $RCONMeCHCO_2H$, where R is alkyl having 10 to 16 carbon atoms; and 0-10% of a nonionic alkyl polyglycoside with the compn. having a pH of ≥ 7.5 .
- IT 9004-82-4, Sodium laureth-3 sulfate
RL: TEM (Technical or engineered material use); USES (Uses)
(mild **cleansing** bar compns.)
- RN 9004-82-4 HCAPLUS
CN Poly(oxy-1,2-ethanediyl), α -sulfo- ω -(dodecyloxy)-, sodium salt (9CI) (CA INDEX NAME)



● Na

IC ICM C11D017-00
ICS C11D015-04; C11D009-22

CC 46-3 (Surface Active Agents and Detergents)

ST mild cleansing bar compn; sulfated ethoxylated alc **detergent**
; polyhydric alc cleansing bar; fatty acid alkanolamide cleansing
bar; alkyl sarcosinic acid cleansing bar; polyglycoside alkyl
cleansing bar

IT Alcohols, uses
Alcohols, uses
RL: TEM (Technical or engineered material use); USES (Uses)
(C16-18, ethoxylated; mild **cleansing** bar compns.)

IT Amides, uses
RL: TEM (Technical or engineered material use); USES (Uses)
(N-(hydroxyalkyl); mild **cleansing** bar compns.)

IT Glycosides
RL: TEM (Technical or engineered material use); USES (Uses)
(alkyl polyglycosides; mild **cleansing** bar compns.)

IT Glycerides, uses
RL: TEM (Technical or engineered material use); USES (Uses)
(almond, ethoxylated; mild **cleansing** bar compns.)

IT **Soaps**
RL: TEM (Technical or engineered material use); USES (Uses)
(bars, transparent; mild **cleansing** bar compns.)

IT Amides, uses
RL: TEM (Technical or engineered material use); USES (Uses)
(coco, N,N-bis(hydroxyethyl); mild **cleansing** bar
compns.)

IT Alcohols, uses
RL: TEM (Technical or engineered material use); USES (Uses)
(ethoxylated, sulfated; mild **cleansing** bar compns.)

IT Polyoxyalkylenes, uses
RL: TEM (Technical or engineered material use); USES (Uses)
(mild **cleansing** bar compns.)

IT Alcohols, uses
RL: TEM (Technical or engineered material use); USES (Uses)
(polyhydric; mild **cleansing** bar compns.)

IT 50-70-4, Sorbitol, uses 56-81-5, Glycerin, uses 57-11-4, Stearic
acid, uses 57-55-6, Propylene glycol, uses 65-85-0D, Benzoic
acid, esters with C12-15 alcs., uses 77-92-9, Citric acid, uses
107-43-7D, Betaine, cocoamidopropyl 107-97-1D, Sarcosinic acid,
cocoyl 107-97-1D, Sarcosinic acid, cocoyl, cocamide
diethanolamides 136-26-5, Capramide DEA 137-16-6, Sodium lauroyl
sarcosinate 334-48-5, Capric acid 822-16-2, Sodium stearate
1562-00-1D, Sodium isethionate, cocoyl derivs., sodium salts
9004-82-4, Sodium laureth-3 sulfate 25322-68-3,
Polyethylene glycol 72300-24-4 106392-12-5, Pluronic F108

148619-01-6, Plantaren 2000

RL: TEM (Technical or engineered material use); USES (Uses)
(mild **cleansing** bar compns.)

L43 ANSWER 11 OF 26 HCAPLUS COPYRIGHT 2005 ACS on STN

1997:696832 Document No. 127:347940 Mid-chain branched primary alkyl alkoxyated sulfate **surfactants, mixtures** thereof, and **detergent compositions** containing them. Connor, Daniel Stedman; Cripe, Thomas Anthony; Vinson, Phillip Kyle; Willman, Kenneth William; Burckett-St. Laurent, James Charles T. R. (Procter and Gamble Company, USA; Connor, Daniel Stedman; Cripe, Thomas Anthony; Vinson, Phillip Kyle; Willman, Kenneth William; Burckett-St. Laurent, James Charles T. R.). PCT Int. Appl. WO 9739087 A1 19971023, 114 pp. DESIGNATED STATES: W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 1997-US6471 19970416. PRIORITY: US 1996-15521 19960416; US 1996-15523 19960416; US 1996-32035 19961126.

AB Title **surfactants** CH₃CH₂(CH₂)_wCR₁H(CH₂)_yCR₂H(CH₂)_z(EO/PO)mOSO₃M, [total C atoms = 14-20 (including R, R₁, and R₂ but excluding the EO/PO moiety); R-R₂ = H, C₁-3 alkyl; when z = 1 R or R₁ ≠ H; M is ≥1 cation; w, x, y = 0-13; z = ≥1; w + x + y + z = 8-14; m ≥0.01]; CH₃CH₂(CH₂)_xCR₁H(CH₂)_yCR₂H(CH₂)_z(EO/PO)mOSO₃M [R₁, R₂ = H, C₁-3 alkyl (both cannot be H); M = water-sol. cation; x, y, = 0-12; z ≥2; x + y + z = 11-14; m ≥0.01]; CH₃(CH₂)_aCHMe(CH₂)_bCH₂(EO/PO)mOSO₃M [M = Na, K, Mg, (substituted) ammonium; a = 2-11; b = 1-10; a + b = 12 or 13; m ≥0.01]; etc.; are useful in laundry and cleaning compns., esp. granular and liq. **detergent** compns. used at low water temp.

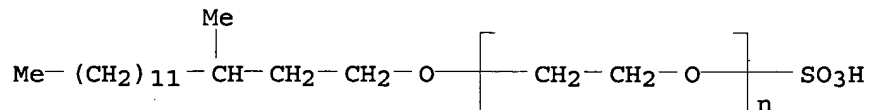
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198082-12-1D, salts 198082-13-2D, salts
198082-14-3D, salts 198082-15-4D, salts
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198082-22-3D, salts 198082-23-4D, salts
198082-24-5D, salts 198082-25-6D, salts
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198082-28-9D, salts 198082-29-0D, salts
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198082-36-9D, salts 198082-37-0D, salts
198082-38-1D, salts 198082-39-2D, salts
198082-40-5D, salts 198082-41-6D, salts
198082-42-7D, salts 198082-43-8D, salts
198082-44-9D, salts 198082-45-0D, salts

198082-46-1D, salts 198082-47-2D, salts

RL: TEM (Technical or engineered material use); USES (Uses)
 (mid-chain branched primary alkyl alkoxyated sulfate
surfactants for cleaning compns.)

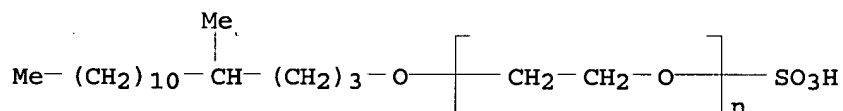
RN 198082-04-1 HCAPLUS

CN Poly(oxy-1,2-ethanediyl), α -sulfo- ω -[(3-
 methylpentadecyl)oxy]- (9CI) (CA INDEX NAME)



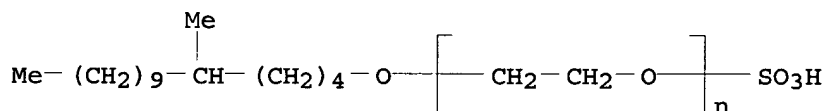
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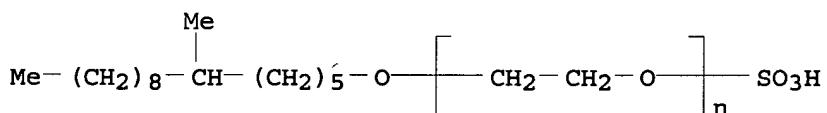
RN 198082-06-3 HCAPLUS

CN Poly(oxy-1,2-ethanediyl), α -sulfo- ω -[(5-
 methylpentadecyl)oxy]- (9CI) (CA INDEX NAME)



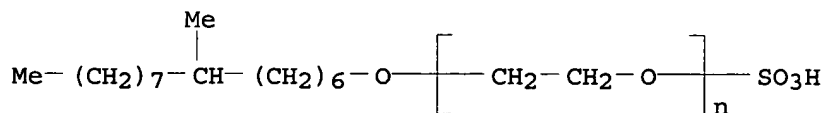
RN 198082-07-4 HCAPLUS

CN Poly(oxy-1,2-ethanediyl), α -sulfo- ω -[(6-
 methylpentadecyl)oxy]- (9CI) (CA INDEX NAME)

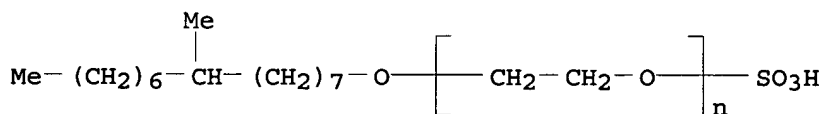


RN 198082-08-5 HCAPLUS

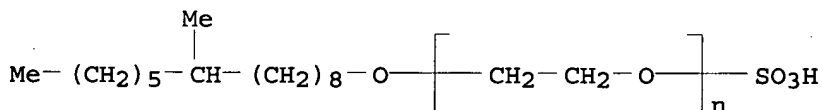
CN Poly(oxy-1,2-ethanediyl), α -sulfo- ω -[(7-
 methylpentadecyl)oxy]- (9CI) (CA INDEX NAME)



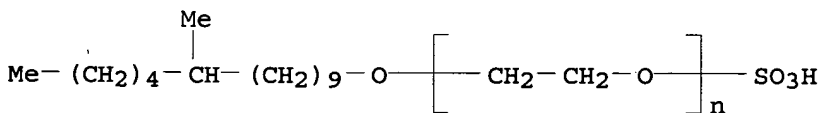
RN 198082-09-6 HCAPLUS
 CN Poly(oxy-1,2-ethanediyl), α -sulfo- ω -[(8-methylpentadecyl)oxy] - (9CI) (CA INDEX NAME)



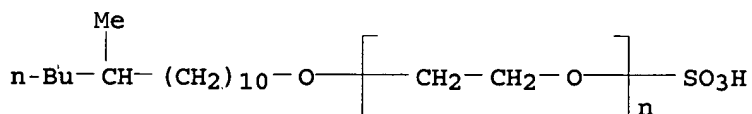
RN 198082-10-9 HCAPLUS
 CN Poly(oxy-1,2-ethanediyl), α -sulfo- ω -[(9-methylpentadecyl)oxy] - (9CI) (CA INDEX NAME)



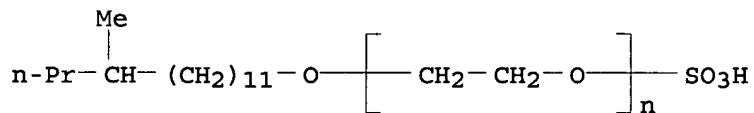
RN 198082-11-0 HCAPLUS
 CN Poly(oxy-1,2-ethanediyl), α -sulfo- ω -[(10-methylpentadecyl)oxy] - (9CI) (CA INDEX NAME)



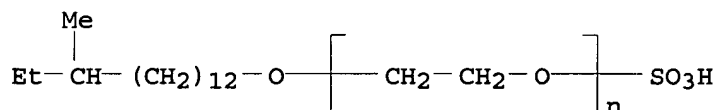
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 CN Poly(oxy-1,2-ethanediyl), α -sulfo- ω -[(11-methylpentadecyl)oxy] - (9CI) (CA INDEX NAME)



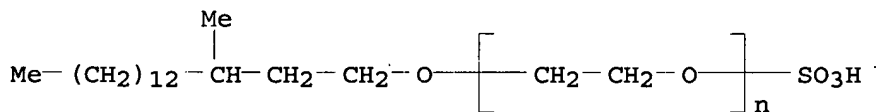
RN 198082-13-2 HCAPLUS
 CN Poly(oxy-1,2-ethanediyl), α -sulfo- ω -[(12-methylpentadecyl)oxy] - (9CI) (CA INDEX NAME)



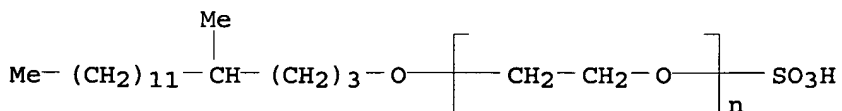
RN 198082-14-3 HCAPLUS

CN Poly(oxy-1,2-ethanediyl), α -sulfo- ω -[(13-methylpentadecyl)oxy]- (9CI) (CA INDEX NAME)

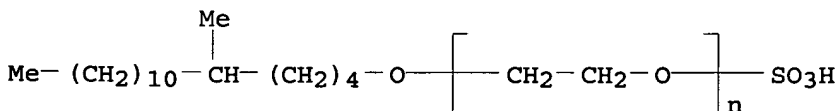
RN 198082-15-4 HCAPLUS

CN Poly(oxy-1,2-ethanediyl), α -sulfo- ω -[(3-methylhexadecyl)oxy]- (9CI) (CA INDEX NAME)

RN 198082-16-5 HCAPLUS

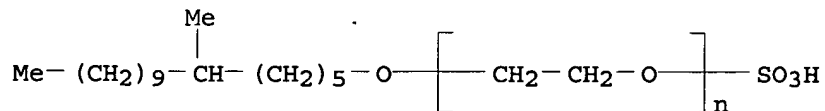
CN Poly(oxy-1,2-ethanediyl), α -sulfo- ω -[(4-methylhexadecyl)oxy]- (9CI) (CA INDEX NAME)

RN 198082-17-6 HCAPLUS

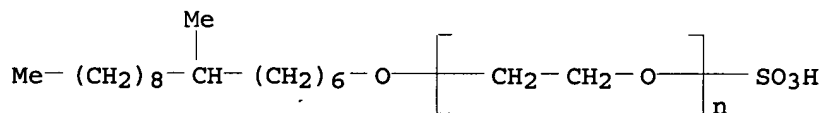
CN Poly(oxy-1,2-ethanediyl), α -sulfo- ω -[(5-methylhexadecyl)oxy]- (9CI) (CA INDEX NAME)

RN 198082-18-7 HCAPLUS

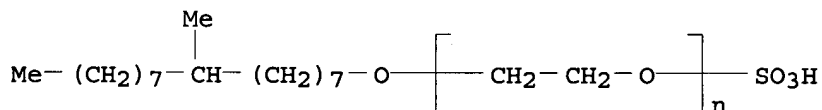
CN Poly(oxy-1,2-ethanediyl), α -sulfo- ω -[(6-methylhexadecyl)oxy]- (9CI) (CA INDEX NAME)



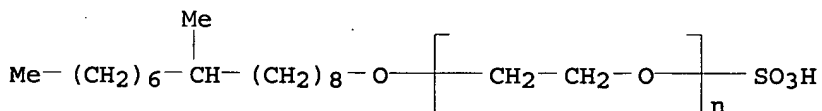
RN 198082-19-8 HCAPLUS
 CN Poly(oxy-1,2-ethanediyl), α -sulfo- ω -[(7-methylhexadecyl)oxy] - (9CI) (CA INDEX NAME)



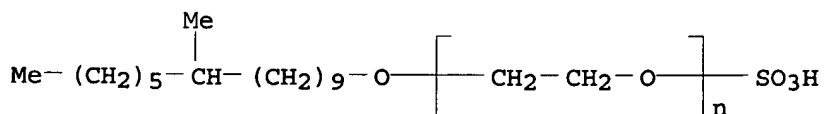
RN 198082-20-1 HCAPLUS
 CN Poly(oxy-1,2-ethanediyl), α -sulfo- ω -[(8-methylhexadecyl)oxy] - (9CI) (CA INDEX NAME)



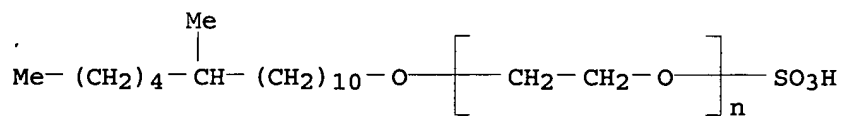
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 CN Poly(oxy-1,2-ethanediyl), α -sulfo- ω -[(9-methylhexadecyl)oxy] - (9CI) (CA INDEX NAME)



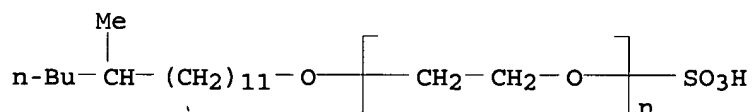
RN 198082-22-3 HCAPLUS
 CN Poly(oxy-1,2-ethanediyl), α -sulfo- ω -[(10-methylhexadecyl)oxy] - (9CI) (CA INDEX NAME)



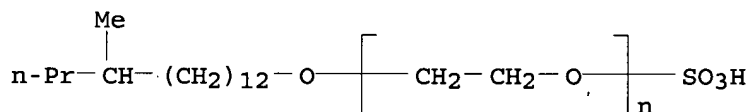
RN 198082-23-4 HCAPLUS
 CN Poly(oxy-1,2-ethanediyl), α -sulfo- ω -[(11-methylhexadecyl)oxy] - (9CI) (CA INDEX NAME)



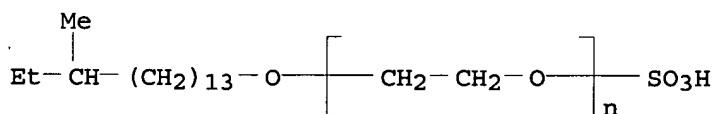
RN 198082-24-5 HCAPLUS
 CN Poly(oxy-1,2-ethanediyl), α -sulfo- ω -[(12-methylhexadecyl)oxy]- (9CI) (CA INDEX NAME)



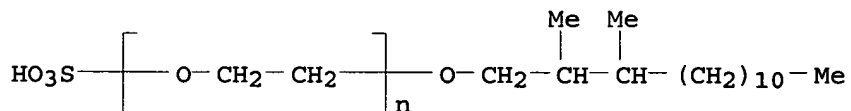
RN 198082-25-6 HCAPLUS
 CN Poly(oxy-1,2-ethanediyl), α -sulfo- ω -[(13-methylhexadecyl)oxy]- (9CI) (CA INDEX NAME)



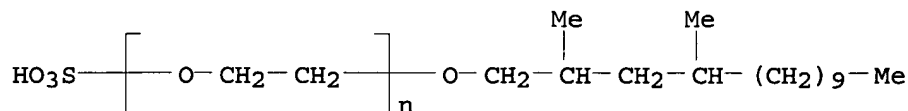
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 CN Poly(oxy-1,2-ethanediyl), α -sulfo- ω -[(14-methylhexadecyl)oxy]- (9CI) (CA INDEX NAME)



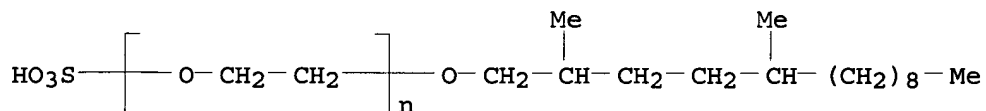
RN 198082-27-8 HCAPLUS
 CN Poly(oxy-1,2-ethanediyl), α -sulfo- ω -[(2,3-dimethyltetradecyl)oxy]- (9CI) (CA INDEX NAME)



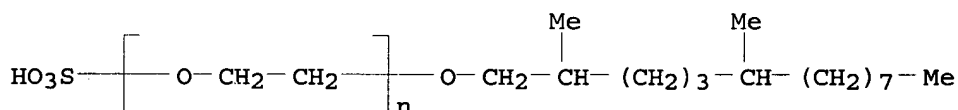
RN 198082-28-9 HCAPLUS
 CN Poly(oxy-1,2-ethanediyl), α -sulfo- ω -[(2,4-dimethyltetradecyl)oxy]- (9CI) (CA INDEX NAME)



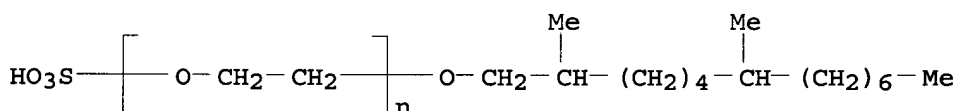
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CN Poly(oxy-1,2-ethanediyl), α -sulfo- ω -[(2,5-dimethyltetradecyl)oxy]- (9CI) (CA INDEX NAME)

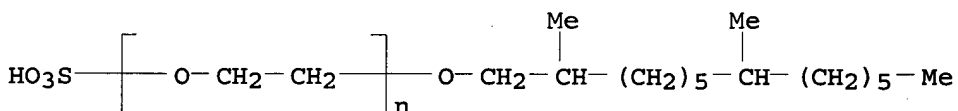
RN 198082-30-3 HCAPLUS

CN Poly(oxy-1,2-ethanediyl), α -sulfo- ω -[(2,6-dimethyltetradecyl)oxy]- (9CI) (CA INDEX NAME)

RN 198082-31-4 HCAPLUS

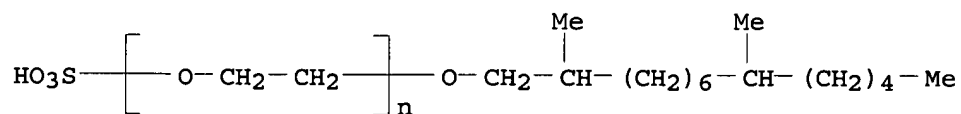
CN Poly(oxy-1,2-ethanediyl), α -sulfo- ω -[(2,7-dimethyltetradecyl)oxy]- (9CI) (CA INDEX NAME)

RN 198082-32-5 HCAPLUS

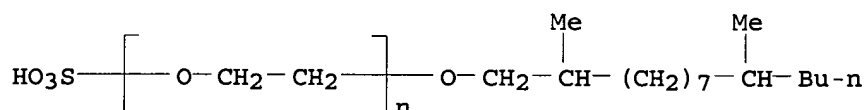
CN Poly(oxy-1,2-ethanediyl), α -sulfo- ω -[(2,8-dimethyltetradecyl)oxy]- (9CI) (CA INDEX NAME)

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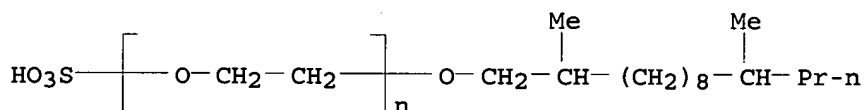
CN Poly(oxy-1,2-ethanediyl), α -sulfo- ω -[(2,9-dimethyltetradecyl)oxy]- (9CI) (CA INDEX NAME)



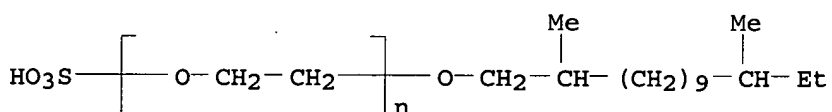
RN 198082-34-7 HCAPLUS
 CN Poly(oxy-1,2-ethanediyl), α -sulfo- ω -[(2,10-dimethyltetradecyl)oxy] - (9CI) (CA INDEX NAME)



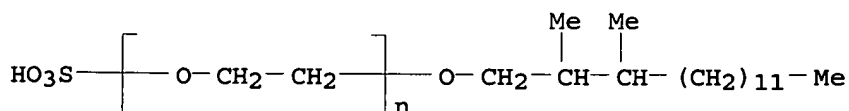
RN 198082-35-8 HCAPLUS
 CN Poly(oxy-1,2-ethanediyl), α -sulfo- ω -[(2,11-dimethyltetradecyl)oxy] - (9CI) (CA INDEX NAME)



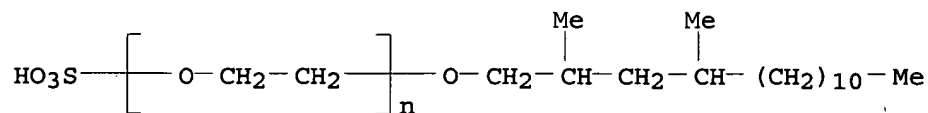
RN 198082-36-9 HCAPLUS
 CN Poly(oxy-1,2-ethanediyl), α -sulfo- ω -[(2,12-dimethyltetradecyl)oxy] - (9CI) (CA INDEX NAME)



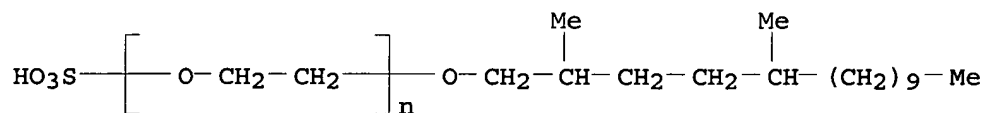
RN 198082-37-0 HCAPLUS
 CN Poly(oxy-1,2-ethanediyl), α -sulfo- ω -[(2,3-dimethylpentadecyl)oxy] - (9CI) (CA INDEX NAME)



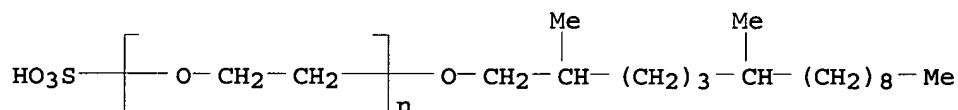
RN 198082-38-1 HCAPLUS
 CN Poly(oxy-1,2-ethanediyl), α -sulfo- ω -[(2,4-dimethylpentadecyl)oxy] - (9CI) (CA INDEX NAME)



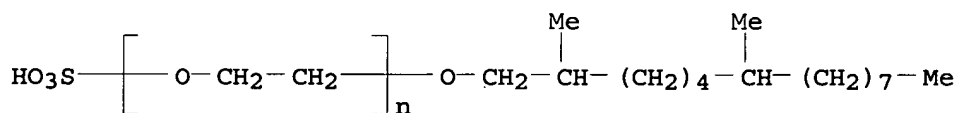
RN 198082-39-2 HCAPLUS
 CN Poly(oxy-1,2-ethanediyl), α -sulfo- ω -[(2,5-dimethylpentadecyl)oxy] - (9CI) (CA INDEX NAME)



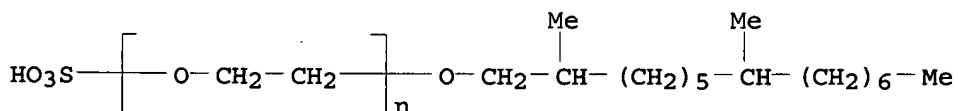
RN 198082-40-5 HCAPLUS
 CN Poly(oxy-1,2-ethanediyl), α -sulfo- ω -[(2,6-dimethylpentadecyl)oxy] - (9CI) (CA INDEX NAME)



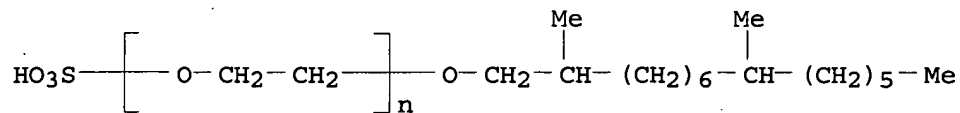
RN 198082-41-6 HCAPLUS
 CN Poly(oxy-1,2-ethanediyl), α -sulfo- ω -[(2,7-dimethylpentadecyl)oxy] - (9CI) (CA INDEX NAME)



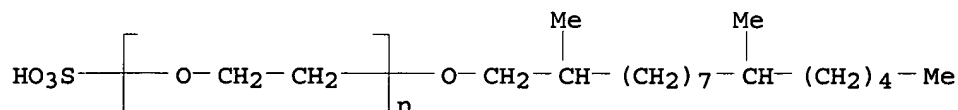
RN 198082-42-7 HCAPLUS
 CN Poly(oxy-1,2-ethanediyl), α -sulfo- ω -[(2,8-dimethylpentadecyl)oxy] - (9CI) (CA INDEX NAME)



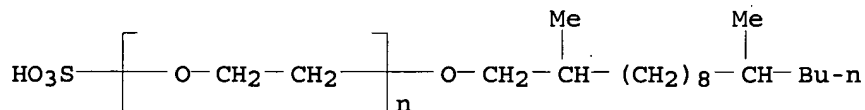
RN 198082-43-8 HCAPLUS
 CN Poly(oxy-1,2-ethanediyl), α -sulfo- ω -[(2,9-dimethylpentadecyl)oxy] - (9CI) (CA INDEX NAME)



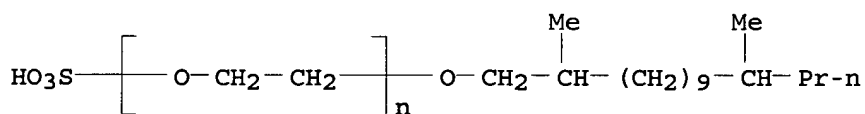
RN 198082-44-9 HCAPLUS

CN Poly(oxy-1,2-ethanediyl), α -sulfo- ω -[(2,10-dimethylpentadecyl)oxy]- (9CI) (CA INDEX NAME)

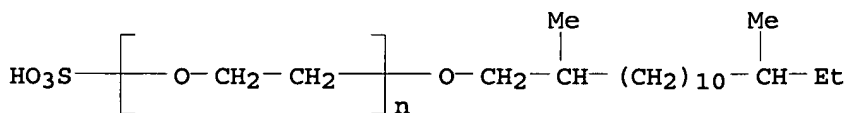
RN 198082-45-0 HCAPLUS

CN Poly(oxy-1,2-ethanediyl), α -sulfo- ω -[(2,11-dimethylpentadecyl)oxy]- (9CI) (CA INDEX NAME)

RN 198082-46-1 HCAPLUS

CN Poly(oxy-1,2-ethanediyl), α -sulfo- ω -[(2,12-dimethylpentadecyl)oxy]- (9CI) (CA INDEX NAME)

RN 198082-47-2 HCAPLUS

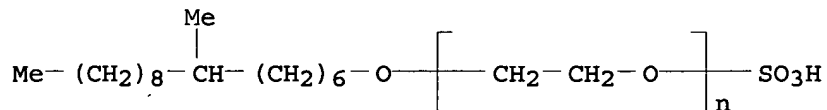
CN Poly(oxy-1,2-ethanediyl), α -sulfo- ω -[(2,13-dimethylpentadecyl)oxy]- (9CI) (CA INDEX NAME)

IT 198080-23-8P 198080-24-9P 198080-25-0P

RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
 (prepn. of; mid-chain branched primary alkyl alkoxyated sulfate surfactants for cleaning compns.)

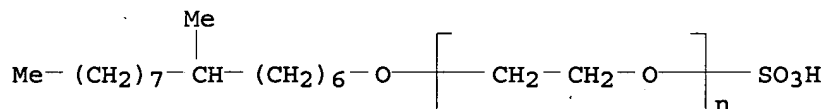
RN 198080-23-8 HCAPLUS

CN Poly(oxy-1,2-ethanediyl), α -sulfo- ω -[(7-methylhexadecyl)oxy]-, sodium salt (9CI) (CA INDEX NAME)



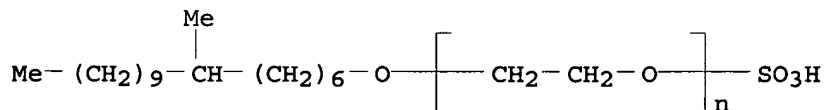
● Na

RN 198080-24-9 HCAPLUS
CN Poly(oxy-1,2-ethanediyl), α -sulfo- ω -[(7-methylpentadecyl)oxy]-, sodium salt (9CI) (CA INDEX NAME)



● Na

RN 198080-25-0 HCAPLUS
CN Poly(oxy-1,2-ethanediyl), α -sulfo- ω -[(7-methylheptadecyl)oxy]-, sodium salt (9CI) (CA INDEX NAME)

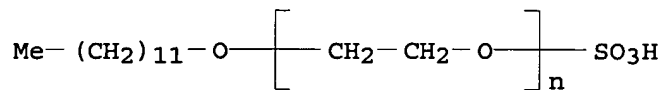


● Na

IC ICM C11D001-14
ICS C11D001-29; C07C305-06; C07C305-10
CC 46-3 (Surface Active Agents and Detergents)
ST **surfactant** branched primary alkyl alkoxylate sulfate;
cleaning compn branched alkyl alkoxylate **surfactant**;
detergent branched alkyl alkoxylate **surfactant**
IT **Detergents**
(dishwashing, granular; mid-chain branched primary alkyl
alkoxylated sulfate **surfactants** for **cleaning**
compns.)
IT **Detergents**
Detergents

- (dishwashing, liq.; mid-chain branched primary alkyl alkoxyated sulfate **surfactants** for **cleaning** compns.)
- IT Alcohols, uses
RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(ethoxylated, C14-20, sodium sulfates; mid-chain branched primary alkyl alkoxyated sulfate **surfactants** for **cleaning** compns.)
- IT **Detergents**
(laundry, liq.; mid-chain branched primary alkyl alkoxyated sulfate **surfactants** for **cleaning** compns.)
- IT **Detergents**
(laundry; mid-chain branched primary alkyl alkoxyated sulfate **surfactants** for **cleaning** compns.)
- IT **Detergents**
(mid-chain branched primary alkyl alkoxyated sulfate **surfactants** for **cleaning** compns.)
- IT 198082-04-1D, salts 198082-05-2D, salts
198082-06-3D, salts 198082-07-4D, salts
198082-08-5D, salts 198082-09-6D, salts
198082-10-9D, salts 198082-11-0D, salts
198082-12-1D, salts 198082-13-2D, salts
198082-14-3D, salts 198082-15-4D, salts
198082-16-5D, salts 198082-17-6D, salts
198082-18-7D, salts 198082-19-8D, salts
198082-20-1D, salts 198082-21-2D, salts
198082-22-3D, salts 198082-23-4D, salts
198082-24-5D, salts 198082-25-6D, salts
198082-26-7D, salts 198082-27-8D, salts
198082-28-9D, salts 198082-29-0D, salts
198082-30-3D, salts 198082-31-4D, salts
198082-32-5D, salts 198082-33-6D, salts
198082-34-7D, salts 198082-35-8D, salts
198082-36-9D, salts 198082-37-0D, salts
198082-38-1D, salts 198082-39-2D, salts
198082-40-5D, salts 198082-41-6D, salts
198082-42-7D, salts 198082-43-8D, salts
198082-44-9D, salts 198082-45-0D, salts
198082-46-1D, salts 198082-47-2D, salts
RL: TEM (Technical or engineered material use); USES (Uses)
(mid-chain branched primary alkyl alkoxyated sulfate **surfactants** for **cleaning** compns.)
- IT 7740-48-9P 198079-67-3P
RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)
(prepn. and alkoxylation of; in prepn. of mid-chain branched primary alkyl alkoxyated sulfate **surfactants** for **cleaning** compns.)
- IT 68760-65-6P, (6-Hydroxyhexyl)triphenylphosphonium bromide
198218-62-1P 198218-63-2P 198218-64-3P
RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)
(prepn. and reaction of; in prepn. of mid-chain branched primary alkyl alkoxyated sulfate **surfactants** for **cleaning** compns.)

- IT 198080-23-8P 198080-24-9P 198080-25-0P
RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(prepn. of; mid-chain branched primary alkyl alkoxyated sulfate **surfactants** for **cleaning** compns.)
- IT 112-12-9, 2-Undecanone 603-35-0, Triphenylphosphine, reactions
693-54-9, 2-Decanone 4286-55-9, 6-Bromo-1-hexanol 6175-49-1,
2-Dodecanone 7790-94-5, Chlorosulfonic acid
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of; in prepn. of mid-chain branched primary alkyl alkoxyated sulfate **surfactants** for **cleaning** compns.)
- L43 ANSWER 12 OF 26 HCAPLUS COPYRIGHT 2005 ACS on STN
1997:400484 Document No. 127:96837 Liquid **detergent compositions** comprising salts of α -sulfonated fatty acid methyl esters, and anionic **surfactants**. Sajic, Branko; Ryklin, Irma; Frank, Brian L.; Rao, Y. Kameshwer (Stepan Company, USA). U.S. US 5637758 A 19970610, 18 pp., Cont.-in-part of U.S. Ser. No. 135,288. (English). CODEN: USXXAM. APPLICATION: US 1995-486360 19950607. PRIORITY: US 1993-135288 19931012.
- AB The title **detergent** compns. contain a mixt. of **surfactants** comprising: (a) a **hydrotropic surfactant** which is a blend of a mono-salt of an α -sulfonated Me or Et ester of a fatty acid having from 12-16 carbon atoms and a di-salt of an α -sulfonated fatty acid, the ratio of mono-salt to di-salt being at least about 2:1; (b) an anionic **surfactant**; (c) an auxiliary foam stabilizing **surfactant**; and (d) a divalent cation selected from Ca++ and Mg++, where the amt. of **surfactant** present in the compn. as a salt of the divalent cation is at least 30% of the mixt. of **surfactants**, the wt. ratio of the **hydrotropic surfactant** to anionic **surfactant** is 1:1.5-1:8, and the amt. of the mixt. of **surfactants** in the compn. is 20-90%. The **detergent** compns. comprise crit. amts. of divalent cations and a min. amt. of the mixt. of a salt of α -sulfonated Me ester of a fatty acid, anionic **surfactants** and foam stabilizing auxiliary **surfactants**.
- IT 32612-48-9, Steol CA460
RL: TEM (Technical or engineered material use); USES (Uses)
(liq. **detergent** compns. comprising salts of α -sulfonated fatty acid Me esters, and anionic **surfactants**)
- RN 32612-48-9 HCAPLUS
CN Poly(oxy-1,2-ethanediyl), α -sulfo- ω -(dodecyloxy)-, ammonium salt (9CI) (CA INDEX NAME)



IC ICM C07C321-14
 INCL 560147000
 CC 46-3 (Surface Active Agents and Detergents)
 ST liq **detergent** sulfonated fatty acid; anionic
surfactant liq detergent; hydrotropic
surfactant liq detergent
 IT Sulfonic acids, uses
 RL: TEM (Technical or engineered material use); USES (Uses)
 (1-alkene, salts; liq. **detergent** compns. comprising
 salts of α-sulfonated fatty acid Me esters, and anionic
surfactants)
 IT Amides, uses
 RL: TEM (Technical or engineered material use); USES (Uses)
 (C12-14, N-(hydroxyethyl), Ninol LMP; liq. **detergent**
 compns. comprising salts of α-sulfonated fatty acid Me
 esters, and anionic **surfactants**)
 IT Alcohols, uses
 RL: TEM (Technical or engineered material use); USES (Uses)
 (C9-11, ethoxylated; liq. **detergent** compns. comprising
 salts of α-sulfonated fatty acid Me esters, and anionic
surfactants)
 IT Sulfonates
 RL: TEM (Technical or engineered material use); USES (Uses)
 (alkanesulfonates; liq. **detergent** compns. comprising
 salts of α-sulfonated fatty acid Me esters, and anionic
surfactants)
 IT Glycosides
 RL: TEM (Technical or engineered material use); USES (Uses)
 (alkyl polyglycosides; liq. **detergent** compns.
 comprising salts of α-sulfonated fatty acid Me esters, and
 anionic **surfactants**)
 IT Fatty acids, uses
 RL: TEM (Technical or engineered material use); USES (Uses)
 (alpha-sulfonated, esters; liq. **detergent** compns.
 comprising salts of α-sulfonated fatty acid Me esters, and
 anionic **surfactants**)
 IT **Surfactants**
 (anionic; liq. **detergent** compns. comprising salts of
 α-sulfonated fatty acid Me esters, and anionic
surfactants)
 IT Amides, uses
 RL: TEM (Technical or engineered material use); USES (Uses)
 (coco, N-(hydroxyethyl), Ninol 40CO; liq. **detergent**
 compns. comprising salts of α-sulfonated fatty acid Me
 esters, and anionic **surfactants**)
 IT Alcohols, uses

Amides, uses

RL: TEM (Technical or engineered material use); USES (Uses)
(fatty; liq. **detergent** compns. comprising salts of
 α -sulfonated fatty acid Me esters, and anionic
surfactants)

IT **Surfactants**

(**hydrotropic**; liq. **detergent** compns.
comprising salts of α -sulfonated fatty acid Me esters, and
anionic **surfactants**)

IT **Detergents**

(liq. **detergent** compns. comprising salts of
 α -sulfonated fatty acid Me esters, and anionic
surfactants)

IT Betaines

Sulfobetaines

RL: TEM (Technical or engineered material use); USES (Uses)
(liq. **detergent** compns. comprising salts of
 α -sulfonated fatty acid Me esters, and anionic
surfactants)

IT Amine oxides

RL: TEM (Technical or engineered material use); USES (Uses)
(long-chain; liq. **detergent** compns. comprising salts of
 α -sulfonated fatty acid Me esters, and anionic
surfactants)

IT Fatty acids, uses

RL: TEM (Technical or engineered material use); USES (Uses)
(sulfo, salt; liq. **detergent** compns. comprising salts
of α -sulfonated fatty acid Me esters, and anionic
surfactants)

IT 98-11-3D, Benzenesulfonic acid, alkyl derivs., salts, uses
142-58-5, Myristic acid monoethanolamide 142-78-9, Lauric acid
monoethanolamide 627-83-8, Ethylene glycol distearate 693-33-4
1300-72-7, Sodium xylene sulfonate 1309-42-8, Magnesium hydroxide
1643-20-5, Ammonyx LO 1847-58-1, Sodium lauryl sulfo acetate
7487-88-9, Magnesium sulfate, uses 7664-93-9D, Sulfuric acid,
alkyl esters, sodium salts, uses 7786-30-3, Magnesium chloride,
uses 28348-53-0, Sodium cumene sulfonate 32612-48-9,
Steol CA460 106716-27-2, Amphosol CA 156014-44-7, Glucopon 625
163663-07-8, Alpha-Step MC 48
RL: TEM (Technical or engineered material use); USES (Uses)
(liq. **detergent** compns. comprising salts of
 α -sulfonated fatty acid Me esters, and anionic
surfactants)

L43 ANSWER 13 OF 26 HCAPLUS COPYRIGHT 2005 ACS on STN

1997:257267 Document No. 126:239884 Polyoxyethylene sulfate-based
cleaner **composition**. Betsupu, Koji; Komya, Kaoru (Asahi
Denka Kogyo KK, Japan). Jpn. Kokai Tokkyo Koho JP 09040994 A2
19970210 Heisei, 5 pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP
1995-195399 19950731.

AB Alkyl benzenesulfonate anionic **surfactant**-free cleaning
compns. contain (A) 5-25% polyoxyethylene alkyl (alkenyl) ether
sulfate salt and (B) 5-15% nonionic **surfactants**, and the
compn. contains $\geq 15\%$ **surfactants** and has A/B ratio
0.5-2/1. A compn. contained polyoxyethylene lauryl ether sulfate
magnesium salt 8, polyoxyethylene lauryl ether 5, lauric acid

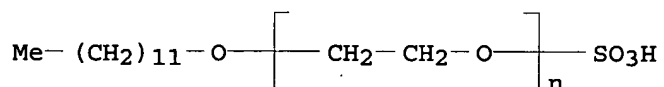
diethanolamide 5, EtOH 5%, and balance water.

IT 9004-82-4, Polyoxyethylene lauryl ether sulfate sodium salt
27233-34-7 34431-26-0 62755-21-9
72427-94-2 87569-97-9

RL: TEM (Technical or engineered material use); USES (Uses)
(polyoxyethylene sulfate-based **cleaner** compn.)

RN 9004-82-4 HCAPLUS

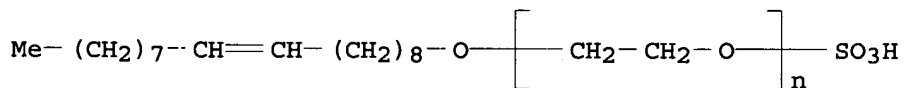
CN Poly(oxy-1,2-ethanediyl), α -sulfo- ω -(dodecyloxy)-,
sodium salt (9CI) (CA INDEX NAME)



● Na

RN 27233-34-7 HCAPLUS

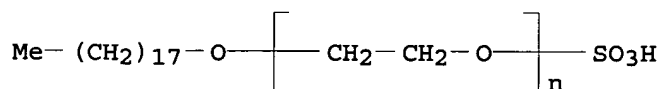
CN Poly(oxy-1,2-ethanediyl), α -sulfo- ω -[(9Z)-9-octadecenyl]-, sodium salt (9CI) (CA INDEX NAME)



● Na

RN 34431-26-0 HCAPLUS

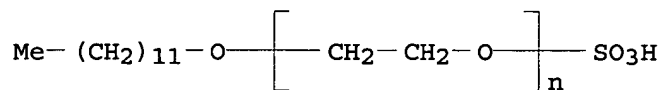
CN Poly(oxy-1,2-ethanediyl), α -sulfo- ω -(octadecyloxy)-,
sodium salt (9CI) (CA INDEX NAME)



● Na

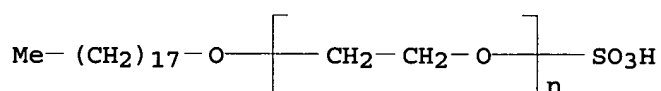
RN 62755-21-9 HCAPLUS

CN Poly(oxy-1,2-ethanediyl), α -sulfo- ω -(dodecyloxy)-,
magnesium salt (9CI) (CA INDEX NAME)



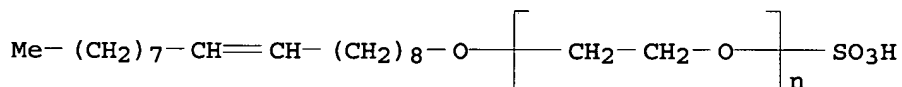
● 1/2 Mg

RN 72427-94-2 HCAPLUS

CN Poly(oxy-1,2-ethanediyl), α -sulfo- ω -(octadecyloxy)-, magnesium salt (9CI) (CA INDEX NAME)

● 1/2 Mg

RN 87569-97-9 HCAPLUS

CN Poly(oxy-1,2-ethanediyl), α -sulfo- ω -[(9Z)-9-octadecenyl]oxy]-, magnesium salt (9CI) (CA INDEX NAME)

● 1/2 Mg

IC ICM C11D001-29

ICS C11D001-83; C11D001-29; C11D001-72; C11D001-52

CC 46-3 (Surface Active Agents and Detergents)

ST polyoxyethylene sulfate cleaner compn; nonionic surfactant cleaner compn; lauric acid diethanolamide cleaner compn

IT **Surfactants**

(nonionic; polyoxyethylene sulfate-based cleaner compn.)

IT **Detergents**

(polyoxyethylene sulfate-based cleaner compn.)

IT 64-17-5, Ethanol, uses 120-40-1, Lauric acid diethanolamide

9002-92-0, Polyoxyethylene lauryl ether 9004-82-4,

Polyoxyethylene lauryl ether sulfate sodium salt 27233-34-7

34431-26-0 62755-21-9 72427-94-2

87569-97-9

RL: TEM (Technical or engineered material use); USES (Uses)

(polyoxyethylene sulfate-based cleaner compn.)

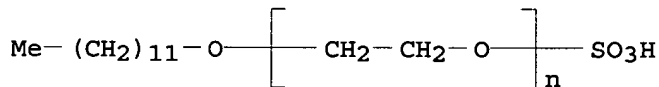
L43 ANSWER 14 OF 26 HCAPLUS COPYRIGHT 2005 ACS on STN
 1997:189703 Document No. 126:187652 Diamine salt-based foamable
 cleaning **compositions**. Imoto, Hiroyuki; Yahagi, Kazuyuki
 (Kao Corp, Japan). Jpn. Kokai Tokkyo Koho JP 09003483 A2 19970107
 Heisei, 5 pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP
 1995-157443 19950623.

AB The compns. comprise anionic **surfactants** of diamine salts
 comprising a pair ion of $\text{HN}+\text{X1X2}(\text{CH2})\text{mCA1A2}(\text{CH2})\text{nN}+\text{X3X4H}$ (I),
 optionally, cationic polymers. Thus, a **shampoo** compn. was
 prepd. from an aq. soln. contg. polyoxyethylene lauryl ether sodium
 sulfate 12.0, a salt of C12H25OSO3H and I ($\text{X1-4} = \text{H}$; A1-2 H ; $\text{m,n} =$
 1, $\text{Y} = \text{Cl}$) 2, JR 400 0.3 and SM 8702C 1.0% and additives.

IT **9004-82-4**, Polyoxyethylene lauryl ether sodium sulfate
 RL: BUU (Biological use, unclassified); PRP (Properties); TEM
 (Technical or engineered material use); BIOL (Biological study);
 USES (Uses)
 (compns. contg.; diamine salt-based foamable **cleaning**
 compns.)

RN **9004-82-4** HCAPLUS

CN Poly(oxy-1,2-ethanediyl), α -sulfo- ω -(dodecyloxy)-,
 sodium salt (9CI) (CA INDEX NAME)



● Na

IC ICM C11D001-12
 ICS A61K007-075; A61K007-50; C11D003-37

CC **46-3** (Surface Active Agents and Detergents)
 Section cross-reference(s): 62

ST cleaning compn diamine salt; polyoxyethylene lauryl ether salt
 cleaning; cationic cellulose diamine salt **shampoo**;
 silicone diamine salt cleaning compn; anionic **surfactant**
 diamine sulfate

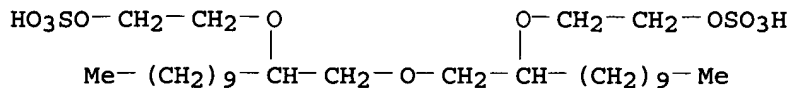
IT Polysiloxanes, uses
 RL: BUU (Biological use, unclassified); PRP (Properties); TEM
 (Technical or engineered material use); BIOL (Biological study);
 USES (Uses)
 (BY 22-029; diamine salt-based foamable **cleaning**
 compns.)

IT **Surfactants**
 (anionic; diamine salt-based foamable **cleaning** compns.)

IT Quaternary ammonium compounds, uses
 RL: BUU (Biological use, unclassified); PRP (Properties); TEM
 (Technical or engineered material use); BIOL (Biological study);
 USES (Uses)
 (compns. contg.; diamine salt-based foamable **cleaning**
 compns.)

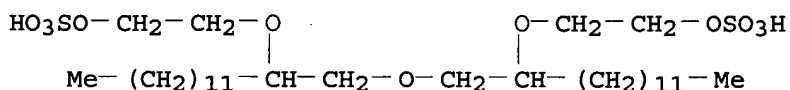
IT **Detergents**
Shampoos

- (diamine salt-based foamable **cleaning** compns.)
- IT 10517-44-9 34989-00-9 52198-63-7 150507-32-7 187403-33-4
187403-37-8
RL: BUU (Biological use, unclassified); PRP (Properties); TEM
(Technical or engineered material use); BIOL (Biological study);
USES (Uses)
(anionic **surfactants**; diamine salt-based foamable
cleaning compns.)
- IT 102-71-6D, amidoamino derivs. 627-83-8, Ethylene glycol distearate
9004-82-4, Polyoxyethylene lauryl ether sodium sulfate
20526-58-3D, Sulfosuccinic acid sodium salt, alkyl deriv.
26590-05-6, Merquat 550 81859-24-7 143711-48-2, SM 8702C
177191-09-2
RL: BUU (Biological use, unclassified); PRP (Properties); TEM
(Technical or engineered material use); BIOL (Biological study);
USES (Uses)
(compns. contg.; diamine salt-based foamable **cleaning**
compns.)
- L43 ANSWER 15 OF 26 HCAPLUS COPYRIGHT 2005 ACS on STN
1997:18389 Document No. 126:48619 Oligomeric alkyl ether sulfates and
their use in cleaning **compositions**. Ricca, Jean-Marc
(Rhone-Poulenc Chimie SA, Fr.; Ricca, Jean-Marc). PCT Int. Appl. WO
9635663 A1 19961114, 36 pp. DESIGNATED STATES: W: AL, AM, AU, BB,
BG, BR, CA, CN, CZ, EE, GE, HU, IS, JP, KP, KR, LK, LR, LT, LV, MD,
MG, MK, MN, MX, NO, NZ, PL, RO, SG, SI, SK, TR, TT, UA, US, UZ, VN,
AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH,
CI, CM, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE,
NL, PT, SE, SN, TD, TG. (French). CODEN: PIXXD2. APPLICATION: WO
1996-FR715 19960510. PRIORITY: FR 1995-5597 19950511.
- AB Oligomeric alkyl ether sulfates having the general formula
 $Z[CH_2CH(CH_2R_1)O(CH_2CH_2O)_mSO_3M]_2$ [I; M = alkali metal, alk. earth
metal, quaternary ammonium; each R1 = O(CHR2CH2O)mQ; each Q = C4-18
alkyl, alkoxy, alkenyl, or alkenyloxy; R2 = H, (OCH2CH2)qOSO3M; Z =
(OCH2CHR3)pO; R3 = H, O(CHR2CH2O)mQ, (OCH2CH2)qOSO3M; m, q = 1-20; p
= 0-20] are useful as **surfactants** in cleaning, cosmetic
and toothpaste compns. Reaction of Me(CH2)9OCH2CH(OH)CH2OH with
decyl glycidyl ether in toluene in the presence of KOH gave
[Me(CH2)9OCH2CH(OH)CH2]2O, which reacted with ethylene sulfate under
similar conditions to give I (M = Na, R1 = decyloxy, m = 1) as a
hygroscopic white powder with crit. micelle concn. 0.028 mM.
- IT **184951-07-3P 184951-08-4P 184951-14-2P**
RL: IMF (Industrial manufacture); PRP (Properties); PREP
(Preparation)
(prepn. of oligomeric alkyl ether sulfates and their use in
cleaning compns.)
- RN 184951-07-3 HCAPLUS
CN Ethanol, 2,2'-[oxybis[(1-decyl-2,1-ethanediyl)oxy]]bis-,
bis(hydrogen sulfate), disodium salt (9CI) (CA INDEX NAME)



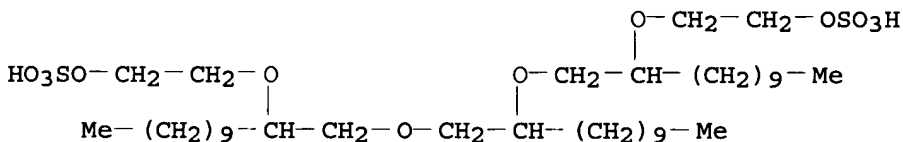
●2 Na

RN 184951-08-4 HCAPLUS
 CN Ethanol, 2,2'-[oxybis[(1-dodecyl-2,1-ethanediyl)oxy]]bis-,
 bis(hydrogen sulfate), disodium salt (9CI) (CA INDEX NAME)



●2 Na

RN 184951-14-2 HCAPLUS
 CN 3,6,9,12-Tetraoxatetradecane-1,14-diol, 4,7,11-tris(decyl)-,
 bis(hydrogen sulfate), disodium salt (9CI) (CA INDEX NAME)



●2 Na

IC ICM C07C305-10
 ICS C11D001-16; A61K007-16
 CC 46-3 (Surface Active Agents and Detergents)
 Section cross-reference(s): 62
 ST anionic **surfactant** alkyl ether sulfate; **detergent**
 compn anionic **surfactant**; cosmetic compn anionic
surfactant; toothpaste compn anionic **surfactant**
 IT **Surfactants**
 (anionic; prepn. of oligomeric alkyl ether sulfates and their use
 in **cleaning** compns.)
 IT Cosmetics
 Dentifrices
Detergents
 (prepn. of oligomeric alkyl ether sulfates and their use in
cleaning compns.)
 IT 184951-07-3P 184951-08-4P 184951-10-8P

184951-12-0P 184951-14-2P

RL: IMF (Industrial manufacture); PRP (Properties); PREP (Preparation)

(prepn. of oligomeric alkyl ether sulfates and their use in **cleaning** compns.)

IT 1072-53-3P, Ethylene sulfate 3647-12-9P, Bis(2-hydroxydodecyl) ether 124029-03-4P, Bis(2-hydroxytetradecyl) ether 134450-08-1P 184951-04-0P 184951-05-1P 184951-06-2P

RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)

(prepn. of oligomeric alkyl ether sulfates and their use in **cleaning** compns.)

IT 1119-87-5, 1,2-Dodecanediol 1561-07-5, 3-Dodecyloxy-1,2-propanediol 2461-18-9, Dodecyl glycidyl ether 2855-19-8, 1,2-Epoxydodecane 3234-28-4, 1,2-Epoxytetradecane 3497-06-1, Decyl glycidyl ether 3741-38-6, Ethylene sulfite 10430-97-4, 3-Decyloxy-1,2-propanediol 21129-09-9, 1,2-Tetradecanediol

RL: RCT (Reactant); RACT (Reactant or reagent)

(prepn. of oligomeric alkyl ether sulfates and their use in **cleaning** compns.)

L43 ANSWER 16 OF 26 HCAPLUS COPYRIGHT 2005 ACS on STN

1997:5556 Document No. 126:48616 Optimization of a liquid

detergent formulation. Moussaoui, M.; Saci, L.;

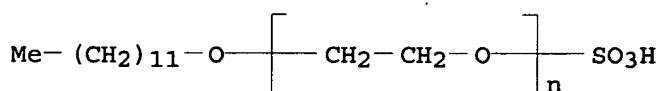
Zaid, T. Ahmed; Chitour, C. E. (Departement de genie chimique, Ecole nationale polytechnique, Algiers, Algeria). Journal de la Societe Chimique de Tunisie, 3(11), 839-846 (French) 1996. CODEN: JSCTDP. ISSN: 0253-1208. Publisher: Societe Chimique de Tunisie.

AB Plackett-Burman exptl. design is applied to a five-component dishwasher liq. **detergent** formulation in order to det. which components affect five different properties of the formulation. Regression anal. and linear programming are then applied to the results of anal. in order to obtain a low cost formulation which matches or exceeds the properties of a com. available product.

IT 9004-82-4, Sodium lauryl ether sulfate

RL: TEM (Technical or engineered material use); USES (Uses) (**detergent** component; optimization of liq. dishwashing **detergent** formulation by regression anal. and linear programming)

RN 9004-82-4 HCAPLUS

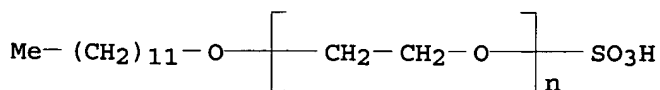
CN Poly(oxy-1,2-ethanediyl), α -sulfo- ω -(dodecyloxy)-, sodium salt (9CI) (CA INDEX NAME)

● Na

CC 46-3 (Surface Active Agents and Detergents)

ST liq dishwashing **detergent** formulation optimization

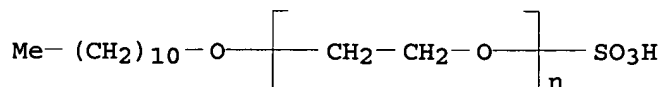
- IT Amides, uses
 RL: TEM (Technical or engineered material use); USES (Uses)
 (coco, N,N-bis(hydroxyethyl), **detergent** component;
 optimization of liq. dishwashing **detergent** formulation
 by regression anal. and linear programming)
- IT **Detergents**
 (dishwashing; optimization of liq. dishwashing **detergent**
 formulation by regression anal. and linear programming)
- IT Optimization
 (optimization of liq. dishwashing **detergent** formulation
 by regression anal. and linear programming)
- IT 57-13-6, Urea, uses 657-84-1, Sodium toluenesulfonate
 9004-82-4, Sodium lauryl ether sulfate 25155-30-0, Sodium
 dodecylbenzenesulfonate
 RL: TEM (Technical or engineered material use); USES (Uses)
 (**detergent** component; optimization of liq. dishwashing
detergent formulation by regression anal. and linear
 programming)
- L43 ANSWER 17 OF 26 HCAPLUS COPYRIGHT 2005 ACS on STN
 1992:196629 Document No. 116:196629 Liquid **detergent**
compositions. Miyashita, Yoko; Nomura, Koki; Nishino,
 Takashi; Ota, Seiichi (Lion Corp., Japan). Jpn. Kokai Tokkyo Koho
 JP 03273100 A2 19911204 Heisei, 5 pp. (Japanese). CODEN: JKXXAF.
 APPLICATION: JP 1990-72483 19900320.
- AB The title compns., esp. useful for cleaning oily stains from
 surfaces of stainless steel in kitchens, have pH ≥ 9 and
 comprise 0.1-8% **surfactants** selected from long-chain
 olefin sulfonate salts and polyoxyethylene long-chain alkyl ether
 sulfate salts and 1-20% of slightly water-sol. solvents
 C₄H₉O(C₂H₄O)_m(C₃H₆O)_nH (I: m = 0.5-1.5; n = 1-3). Thus, an aq.
 compn. with pH 11.9 contg. C₁₄ α -olefin sulfonic acid Na salt
 5.0, monoethanolamine 6.0, fragrance 0.1, and I (m = 1; n = 1.25)
 7.0% was used to remove oils from SUS 304 plate to show a finished
 surface with good gloss, vs. poor using a compn. contg. I (m = 1, n
 = 3.60) instead.
- IT 9004-82-4 9014-91-9 27731-62-0
 54116-08-4
 RL: TEM (Technical or engineered material use); USES (Uses)
 (**surfactants**, liq. **detergents** contg., for
 stainless steel **cleaning**)
- RN 9004-82-4 HCAPLUS
- CN Poly(oxy-1,2-ethanediyl), α -sulfo- ω -(dodecyloxy)-,
 sodium salt (9CI) (CA INDEX NAME)



● Na

RN 9014-91-9 HCAPLUS

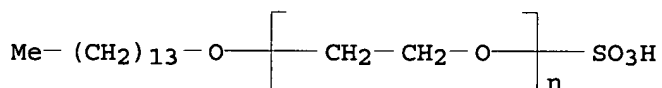
CN Poly(oxy-1,2-ethanediyl), α -sulfo- ω -(undecyloxy)-,
sodium salt (9CI) (CA INDEX NAME)



● Na

RN 27731-62-0 HCAPLUS

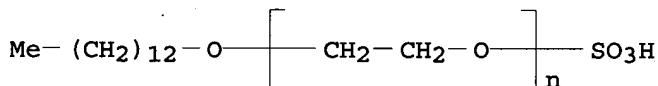
CN Poly(oxy-1,2-ethanediyl), α -sulfo- ω -(tetradecyloxy)-,
sodium salt (9CI) (CA INDEX NAME)



● Na

RN 54116-08-4 HCAPLUS

CN Poly(oxy-1,2-ethanediyl), α -sulfo- ω -(tridecyloxy)-,
sodium salt (9CI) (CA INDEX NAME)



● Na

IC ICM C11D010-02

ICI C11D010-02, C11D007-50, C11D001-14, C11D001-29, C11D007-26

CC 46-3 (Surface Active Agents and Detergents)

Section cross-reference(s): 55

ST liq **detergent** stainless steel cleaning; solvent

polyoxyalkylene ether **detergent**

IT **Detergents**

(liq., ethylene oxide-propylene oxide copolymer Bu ether and
surfactants in, for stainless steel)

IT 11109-50-5, SUS 304

RL: PROC (Process)

(**cleaning** of, liq. **detergents** for)

IT 9038-95-3, Ethylene oxide-propylene oxide copolymer butyl ether

RL: USES (Uses)

(liq. **detergents** contg., as solvents, for stainless)

steel cleaning)

IT 9004-82-4 9014-91-9 27731-62-0
54116-08-4

RL: TEM (Technical or engineered material use); USES (Uses)
(surfactants, liq. detergents contg., for
stainless steel cleaning)

L43 ANSWER 18 OF 26 HCAPLUS COPYRIGHT 2005 ACS on STN

1990:141785 Document No. 112:141785 **Detergent**
compositions containing sulfotricarballylates. Fujii,
Yasuyuki; Saijo, Hiroyuki; Deguchi, Katsuhiko (Kao Corp., Japan).
Jpn. Kokai Tokkyo Koho JP 01242696 A2 19890927 Heisei, 4 pp.
(Japanese). CODEN: JKXXAF. APPLICATION: JP 1988-68929 19880323.

AB The title compns. with good foaming and rinsing property in water of
various hardness comprise R1O2CCH2C(SO3X)(CO2R2)CH2CO2R3 (I) and/or
R1O2CCH(SO3X)CH(CO2R2)CH2CO2R3 (II) (R1-3 = H, C1-20 alkyl or
alkenyl, alkali metal, alk. earth metal, org. amine; ≥2 of
R1-3 is alkyl or alkenyl, total C no. of R1-3 is 12-24; X = alkali
metal, alk. earth metal, org. amine) and ≥1
surfactant selected from R4O(C2H4O)nSO3X (III; R4 = C10-18
alkyl, alkenyl, or alkylphenyl; av. n = 1-14), R5O(C2H4O)mH (IV; R5
= C8-20 alkyl, alkenyl, or alkylphenyl; av. m = 1-20), and
4-R6C6H4SO3X (R6 = C9-15 alkyl or alkenyl). Thus, an aq.
detergent contg. I-II (1/1) mixt. (R1-3 = CH2CHEt2, X = Na)
12, III (R4 = dodecyl, X = Na, n = 3) 8, and IV (R5 = dodecyl, m =
7) 8% showed excellent oil **detergency**, foaming ability,
and rinsing property in water with hardness 3.5-10°.

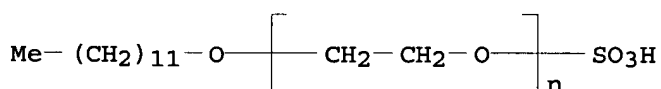
IT 9004-82-4

RL: USES (Uses)

(detergents, contg. sulfotricarballylates, with good
rinsing and foaming property)

RN 9004-82-4 HCAPLUS

CN Poly(oxy-1,2-ethanediyl), α-sulfo-ω-(dodecyloxy)-,
sodium salt (9CI) (CA INDEX NAME)



● Na

IC ICM C11D001-28

ICS C11D001-83

ICI C11D001-83, C11D001-22, C11D001-28, C11D001-29, C11D001-72

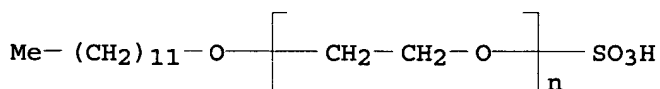
CC 46-3 (Surface Active Agents and Detergents)

ST sulfotricarballylate blend **detergent** rinsing foaming;
nonionic **surfactant detergent**
sulfotricarballylate; anionic **surfactant detergent**
sulfotricarballylate; polyoxyalkylene **surfactant**
detergent sulfotricarballylate

IT **Detergents**

(contg. sulfotricarballylates and **surfactant**, with good

- IT **rinsing** and foaming property)
Detergents
(dishwashing, contg. sulfotricarballylates and
surfactants, with good **rinsing** and foaming
property)
- IT 119598-68-4 125111-19-5 125111-20-8 125111-21-9 125111-22-0
125111-23-1
RL: TEM (Technical or engineered material use); USES (Uses)
(**detergents** contg., with good **rinsing** and
foaming property)
- IT 9002-92-0, Poly(oxyethylene) dodecyl ether **9004-82-4**
25155-30-0, Sodium dodecylbenzenesulfonate
RL: USES (Uses)
(**detergents**, contg. sulfotricarballylates, with good
rinsing and foaming property)
- L43 ANSWER 19 OF 26 HCAPLUS COPYRIGHT 2005 ACS on STN
1990:79994 Document No. 112:79994 Dishwashing **detergent**
compositions. Monma, Tsunemi; Tsuru, Tatsuya; Sakuma, Yumi
(Kunimine Industries Co., Ltd., Japan). Jpn. Kokai Tokkyo Koho JP
01182399 A2 19890720 Heisei, 6 pp. (Japanese). CODEN: JKXXAF.
APPLICATION: JP 1988-3681 19880113.
- AB The title compns. useful for metal, glass, porcelain, china, etc.,
contain layered silicate minerals 100, anionic **surfactants**
50-1000, and amphoteric **surfactants** 50-1000 parts. Thus,
an aq. soln. contg. 3 parts Smectone SA and 0.2 part CMC was blended
with Tohol N 230X (lauryldiethanolamide) 5, Runox S 40T
(dodecylbenzenesulfonic acid triethanolamine salt) 10, and Obanol
516 10 parts and dild. with H2O to give a dishwashing
detergent with good handle.
- IT **9004-82-4**, Alscoap TAP 30
RL: USES (Uses)
(dishwashing **detergents** contg. layered silicates and,
with good handle)
- RN 9004-82-4 HCAPLUS
CN Poly(oxy-1,2-ethanediyl), α -sulfo- ω -(dodecyloxy)-,
sodium salt (9CI) (CA INDEX NAME)

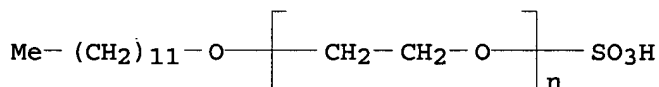


● Na

- IC ICM C11D001-94
ICS C11D003-12
ICI C11D001-94, C11D001-12, C11D001-88, C11D003-12
CC **46-3** (Surface Active Agents and Detergents)
ST dishwashing **detergent** layered silicate salt; anionic
surfactant dishwashing **detergent** handle;
amphoteric **surfactant** dishwashing **detergent**
handle

- IT Betaines
RL: USES (Uses)
(coco alkyldimethyl, dishwashing **detergents** contg. layered silicates and, Nissan Anon BF, with good handle)
- IT **Detergents**
(dishwashing, contg. layered silicates and anionic **surfactants** and amphoteric **surfactants**, with good handle)
- IT Silicates, uses and miscellaneous
RL: USES (Uses)
(layered, dishwashing **detergents** contg. **surfactants** and, with good handle)
- IT 151-21-3, Sodium lauryl sulfate, uses and miscellaneous
RL: USES (Uses)
(dishwashing **detergents** contg. layered silicates and, Alscop LN 40A, with good handle)
- IT 27323-41-7, Dodecylbenzenesulfonic acid triethanolamine salt
RL: USES (Uses)
(dishwashing **detergents** contg. layered silicates and, Runox S 40T, with good handle)
- IT 120-40-1, Lauryl diethanolamide
RL: USES (Uses)
(dishwashing **detergents** contg. layered silicates and, Tohol N 230X, with good handle)
- IT **9004-82-4**, Alscop TAP 30 51811-79-1, Gafac PE 510 95145-42-9, Obanol 516
RL: USES (Uses)
(dishwashing **detergents** contg. layered silicates and, with good handle)
- IT 1318-93-0, Kunipia F, uses and miscellaneous 53320-86-8, Laponite XLS 120668-89-5, Smectone SA
RL: USES (Uses)
(dishwashing **detergents** contg. **surfactants** and, with good handle)
- L43 ANSWER 20 OF 26 HCAPLUS COPYRIGHT 2005 ACS on STN
1989:480372 Document No. 111:80372 Liquid **detergent compositions** with good storage stability. Bulfari, Mario; Van de Pas, Johannes Cornelis (Unilever N. V., Neth.). Braz. Pedido PI BR 8803786 A 19890221, 35 pp. (Portuguese). CODEN: BPXXDX. APPLICATION: BR 1988-3786 19880729. PRIORITY: GB 1987-18216 19870731; GB 1988-13689 19880609.
- AB The compns., with phase sepn. after 21 days <2%, comprise active **detergents** dispersed in an aq. phase contg. partially dissolved viscosity-reducing polymers [e.g., copolymers of alkali metal salts of (meth)acrylic or maleic acid] and dissolved electrolytes, and show viscosity ≤ 1 Pa-s at shear rate 21 s⁻¹. An aq. soln. contg. Na dodecylbenzenesulfonate 7.7, lauryl ethoxylate sulfate 2.4, ethoxylated fatty alc. 2.4, zeolites 20.0, acrylic acid-maleic acid copolymer Na salt 3.5, citric acid 1.5, glycerol 8.0, borax 5.7, and additives 1.4% had viscosity 800 mPa-s and showed phase sepn. (after 3 mo) <2%.
- IT **9004-82-4**
RL: USES (Uses)
(storage-stable liq. **detergents** contg. acrylate-maleate viscosity-reducing polymers and)

RN 9004-82-4 HCAPLUS
 CN Poly(oxy-1,2-ethanediyl), α -sulfo- ω -(dodecyloxy)-,
 sodium salt (9CI) (CA INDEX NAME)



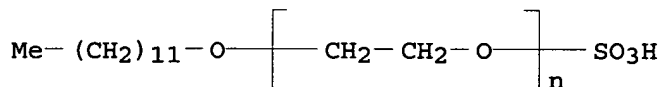
● Na

IC ICM C11D003-37
 ICS C11D001-83; C11D003-14
 CC 46-3 (Surface Active Agents and Detergents)
 ST storage stability liq **detergent** compn;
 dodecylbenzenesulfonate sodium stable liq **detergent**;
 acrylate maleate copolymer **detergent** compn; phase sepn
 prevention liq **detergent**; viscosity redn liq
detergent
 IT Alcohols, compounds
 RL: USES (Uses)
 (C13-15, ethoxylated, storage-stable liq. **detergents**
 contg. anionic **surfactants** and acrylate-maleate
 viscosity-reducing polymers and)
 IT **Detergents**
 (liq., manuf. of, contg. acrylate-maleate polymer viscosity
 reducers, storage-stable)
 IT 9004-82-4 25155-30-0, Sodium dodecylbenzenesulfonate
 RL: USES (Uses)
 (storage-stable liq. **detergents** contg. acrylate-maleate
 viscosity-reducing polymers and)
 IT 25549-84-2, Poly(sodium acrylate) 60472-42-6
 RL: USES (Uses)
 (viscosity reducers, storage-stable liq. **detergents**
 contg.)

L43 ANSWER 21 OF 26 HCAPLUS COPYRIGHT 2005 ACS on STN
 1989:480371 Document No. 111:80371 Anionic liquid **detergent**
compositions with good foaming in hard water. Kanekiyo,
 Takasumi; Tanaka, Noriaki; Koizumi, Yoshitaka (Mitsubishi
 Petrochemical Co., Ltd., Japan). Jpn. Kokai Tokkyo Koho JP 01016898
 A2 19890120 Heisei, 3 pp. (Japanese). CODEN: JKXXAF. APPLICATION:
 JP 1987-172651 19870710.

AB Title compns. with excellent scum dispersion, useful in
shampoos and face cleansers and for dishwashing and laundry
 (no data), contain 1-10 parts R10(CH₂CH₂O)_rSO₃M (I: R1 = C7-21
 alkyl, alkenyl; M = alkali metal; r = 0.5-7) and 1 part
 R2CONH(CH₂CH₂O)_pSO₃M (II: R2 = C7-19 alkyl, alkenyl; M = alkali
 metal; p = 1-3). Thus, an aq. soln. contg. 20% I (R1 = dodecyl, M =
 Na, r = 3) and 2.5% II (R2 = C11H₂₃, M = Na, p = 1) (III) showed
 viscosity 7 cP and good foaming in water contg. 10 ppm Ca and
 simulated skin oils, vs. 10 cP and poor foaming for a compn. contg.
 coconut-oil fatty acid diethanolamide instead of III.

IT **9004-82-4**
 RL: USES (Uses)
 (oligomeric, liq. **detergents** contg., with good foaming
 and scum dispersion in hard water)
 RN 9004-82-4 HCAPLUS
 CN Poly(oxy-1,2-ethanediyl), α -sulfo- ω -(dodecyloxy)-,
 sodium salt (9CI) (CA INDEX NAME)



● Na

IC ICM. C11D001-29
 ICS A61K007-075; A61K007-50
 CC **46-3** (Surface Active Agents and Detergents)
 Section cross-reference(s): 62
 ST liq **detergent** anionic **surfactant**; foaming
 property liq **detergent**; **shampoo** anionic
surfactant; dishwashing **detergent** liq anionic
surfactant; laundry **detergent** liq anionic
surfactant; polyoxyethylene sulfate salt liq
detergent; alc ether sulfate liq **detergent**; amide
 ether sulfate liq **detergent**; ethoxylated fatty amide alc
detergent
 IT Amides, compounds
 RL: USES (Uses)
 (fatty, N-(hydroxyethyl), ethoxylated, sulfates, alkali metal
 salts, liq. **detergents** contg., with good foaming and
 scum dispersion in hard water)
 IT **Detergents**
 (liq., ethoxylated fatty alc. and amide sulfate mixts., with good
 foaming and scum dispersion in hard water)
 IT 142-86-9
 RL: USES (Uses)
 (liq. **detergents** contg., with good foaming and scum
 dispersion in hard water)
 IT **9004-82-4** 34870-92-3D, fatty ether and amide derivs.,
 alkali metal salts
 RL: USES (Uses)
 (oligomeric, liq. **detergents** contg., with good foaming
 and scum dispersion in hard water)
 L43 ANSWER 22 OF 26 HCAPLUS COPYRIGHT 2005 ACS on STN
 1980:552005 Document No. 93:152005 Krafft points of anionic
surfactants and their **mixtures** with special
 attention to their applicability in hard water. Tsujii, Kaoru;
 Saito, Naoyuki; Takeuchi, Takashi (Tochigi Res. Lab., Kao Soap Co.,
 Tochigi, 321-34, Japan). Journal of Physical Chemistry, 84(18),
 2287-91 (English) 1980. CODEN: JPCHAX. ISSN: 0022-3654.
 AB The Krafft points are detd. for the Na and Ca salts of linear octyl-

and dodecylbenzenesulfonic acids, $C_{12}H_{25}O(CH_2CH_2O)_nSO_3H$ (I) ($n = 1$ or 3), $C_{12}H_{25}CH(OH)CH_2CH_2SO_3H$, and $C_{12}H_{25}CH:CHCH_2SO_3H$ and their mixts. The salts of I are the best **surfactants** for use in hard water, i.e., their Na and Ca salts are sol. at room temp. and for binary **surfactant** mixts., the Krafft point either reaches a min. at a certain compn. (group I mixts.) or varies monotonously with the compn. change (group II mixts.). From the compn. anal. of the solid phase, the components are immiscible in group I mixts. and completely miscible in group II mixts. The thermodyn. theory for f.p. depression is applied favorably to the Krafft point vs. compn. curves for the group I mixts. Theor. calcns. for the Krafft point vs. compn. curve (liquidus curve) and the corresponding solidus curve for group II mixts. agreed poorly with the obsd. curves.

IT 15826-16-1 41343-91-3

RL: USES (Uses)

(Krafft point and hard water applicability of)

RN 15826-16-1 HCAPLUS

CN Ethanol, 2-(dodecyloxy)-, hydrogen sulfate, sodium salt (9CI) (CA INDEX NAME)

$Me-(CH_2)_{11}-O-CH_2-CH_2-OSO_3H$

● Na

RN 41343-91-3 HCAPLUS

CN Ethanol, 2-(dodecyloxy)-, hydrogen sulfate, calcium salt (9CI) (CA INDEX NAME)

$Me-(CH_2)_{11}-O-CH_2-CH_2-OSO_3H$

● 1/2 Ca

CC 46-3 (Surface Active Agents and Detergents)

ST Krafft point anionic **surfactant**; sulfate **surfactant** Krafft point; sulfonate **surfactant** Krafft point; anionic **surfactant** Krafft point; calcium salt **surfactant**; Krafft point

IT Krafft point
(of anionic **surfactants** as sodium and calcium salts)

IT **Detergents**
(anionic, sodium and calcium salts of, Krafft point and hard water applicability of)

IT 13150-00-0 13513-24-1 15826-16-1 25155-30-0
26264-06-2 28675-11-8 38826-82-3 41343-91-3
70497-16-4 74062-35-4 74077-32-0 74077-33-1

RL: USES (Uses)

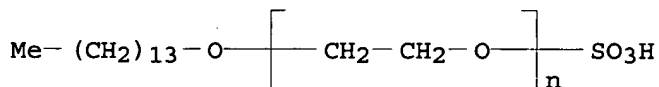
(Krafft point and hard water applicability of)

L43 ANSWER 23 OF 26 HCAPLUS COPYRIGHT 2005 ACS on STN
 1977:108357 Document No. 86:108357 Cleaning **compositions**
 containing alkyl ether sulfate **detergents**. Aalbers, Johan
 Gerhard; Van Paassen, Nicolaas Adrianus Ignatius (CHEM-Y, Fabriek
 van Chemische Produkten B. V., Neth.). Ger. Offen. DE 2632953
 19770210, 15 pp. (German). CODEN: GWXXBX. APPLICATION: DE
 1976-2632953 19760722.

AB Ethoxylation of alcs. in the presence of SbCl₅ catalysts, followed
 by sulfation, gave RO(C₂H₅O)_nSO₃Na (R = C₁₀₋₁₅ alkyl, n = 1-5) which
 had good foaming properties, gave aq. solns. suitable for thickening
 by the addn. of NaCl, and were esp. useful in liq. **detergent**
 formulation for washing dishes and hair.

IT 27731-62-0
 RL: TEM (Technical or engineered material use); USES (Uses)
 (**cleaning** compns. contg., with improved viscosity and
 foaming properties)

RN 27731-62-0 HCAPLUS
 CN Poly(oxy-1,2-ethanediyl), α-sulfo-ω-(tetradecyloxy)-,
 sodium salt (9CI) (CA INDEX NAME)



● Na

IC C11D001-16
 CC 46-3 (Surface Active Agents and Detergents)
 ST alkyl ether sulfate **detergent**; dishwashing alkyl ether
 sulfate; **shampoo** alkyl ether sulfate; ethoxylate alc
 sulfate **detergent**; foaming alkyl ether sulfate; thickening
 alkyl ether sulfate

IT **Detergents**
 (alkyl ether sulfate, with improved viscosity and foaming
 properties)

IT Viscosity
 (alkyl ether sulfates for liq. **detergents** with
 improved)

IT Alcohols, uses and miscellaneous
 (C₁₂₋₁₅ aliph., branched, **cleaning** compns. contg., with
 improved viscosity and foaming properties)

IT Alcohols, compounds
 (C₁₂₋₁₅ aliph., ethoxy, sodium sulfates, **cleaning**
 compns. contg., with improved viscosity and foaming properties)

IT 25322-68-3D, monoalkyl ether, sulfate, sodium salts
 27731-62-0 39388-31-3D, ethoxylated, sulfated, sodium salt
 RL: TEM (Technical or engineered material use); USES (Uses)
 (**cleaning** compns. contg., with improved viscosity and
 foaming properties)

L43 ANSWER 24 OF 26 HCAPLUS COPYRIGHT 2005 ACS on STN

1975:412744 Document No. 83:12744 Disinfectant **detergent mixtures**. Gluck, Bruno (BOCO Waeschedienst Ernst Rethwisch, Fed. Rep. Ger.). Ger. Offen. DE 2341785 19750227, 16 pp. (German). CODEN: GWXXBX. APPLICATION: DE 1973-2341785 19730817.

AB Disinfectant **detergents** contained iodine [7553-56-2], **surfactant** poly(oxethylene) condensates, e.g. polyethylene glycol nonylphenyl ether (I) [9016-45-9] and another **surfactant**, e.g. Na dodecylbenzenesulfonate (II) [25155-30-0], or triethanolamine lauryl ether sulfate [52094-59-4]. Thus, 0.05 parts iodine were added to 20 parts aq. soln. contg. ethoxylated I 2, II 4, and Na lauryl sulfate [151-21-3] 6 parts and the pH was adjusted to 5.5. by citric acid addn. to give a conc., which was dild. 1:10 before use.

IT 27028-82-6

RL: USES (Uses)

(**disinfectant detergents** contg. iodine)

RN 27028-82-6 HCAPLUS

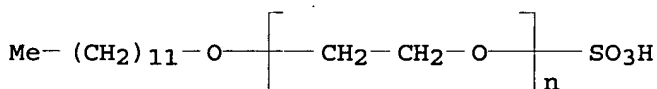
CN Ethanol, 2,2',2''-nitrilotris-, compd. with α -sulfo- ω -(dodecyloxy)poly(oxy-1,2-ethanediyl) (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 26183-44-8

CMF (C2 H4 O)_n C12 H26 O4 S

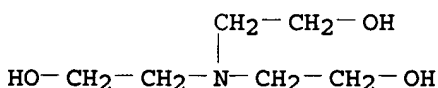
CCI PMS



CM 2

CRN 102-71-6

CMF C6 H15 N O3



IC C11D

CC 46-3 (Surface Active Agents and Detergents)

Section cross-reference(s): 63

ST disinfectant **detergent** iodine

IT **Detergents**

(bactericides for, iodine as)

IT Bactericides, **Disinfectants** and Antiseptics

(iodine, in **detergents**)

IT 7553-56-2, uses and miscellaneous

RL: USES (Uses)

(**disinfectant detergents** contg.)

IT 120-40-1 151-21-3, uses and miscellaneous 1331-61-9 9003-39-8

9014-90-8 9016-45-9 9036-19-5 25155-30-0 26545-53-9
 27028-82-6 45205-25-2

RL: USES (Uses)

(disinfectant detergents contg. iodine)

L43 ANSWER 25 OF 26 HCAPLUS COPYRIGHT 2005 ACS on STN

1974:465557 Document No. 81:65557 Liquid **detergent**

compositions having pearllike luster. Naganuma, Yoshinori
 (Kao Soap Co., Ltd.). Jpn. Tokkyo Koho JP 48042937 B4 19731215
 Showa, 5 pp. (Japanese). CODEN: JAXXAD. APPLICATION: JP
 1969-76398 19690925.

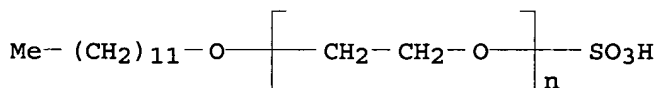
AB **Detergents** contg. an alkoxy or alkylphenoxy
 polyethenoxyethyl sulfate and a fatty acid alkylol amide had good
 washing and foaming power and pearllike luster and were mild to the
 skin. Thus, a **detergent** comprised polyethylene glycol
 monolauryl ether Na sulfate [9004-82-4] 15, lauric acid
 monoethanolamide [142-78-9] 5, urea 5, perfume 0.2, and water 74.8%
 and a trace amt. of coloring substance.

IT 9004-82-4

RL: TEM (Technical or engineered material use); USES (Uses)
 (**detergents** contg., for pearllike luster)

RN 9004-82-4 HCAPLUS

CN Poly(oxy-1,2-ethanediyl), α -sulfo- ω -(dodecyloxy)-,
 sodium salt (9CI) (CA INDEX NAME)



● Na

IC C11D

CC 46-3 (Surface Active Agents and Detergents)

ST pearllike luster liq **detergent**; alkylol amide
detergent luster; polyethylene glycol sulfate
detergent luster

IT Amides, compounds

RL: USES (Uses)

(alkylol derivs., **detergents** contg., for pearllike
 luster)

IT Luster

(liq. **detergent** with pearllike)

IT **Detergents**

(liq., with pearllike luster)

IT 142-78-9 9004-82-4

RL: TEM (Technical or engineered material use); USES (Uses)
 (**detergents** contg., for pearllike luster)

L43 ANSWER 26 OF 26 HCAPLUS COPYRIGHT 2005 ACS on STN

1973:99474 Document No. 78:99474 Krafft points of calcium and sodium
 dodecylpoly(oxyethylene) sulfates and their **mixtures**.

Hato, Masakatsu; Shinoda, Kozo (Res. Inst. Polym. Text., Yokohama,

Japan). Journal of Physical Chemistry, 77(3), 378-81 (English)
1973. CODEN: JPCCHX. ISSN: 0022-3654.

AB Increasing the oxyethylene chain length of calcium- [34354-50-2] and Na dodecylpoly(oxyethylene) sulfate (I) [9004-82-4] decreased the crit. micelle concn. and depressed the Krafft point, thereby rendering the Ca salts suitable for hard water **surfactants**. Addn. of Ca to I aq. soln. initially depressed the Krafft point, then increased it rapidly up to the Krafft point of the added Ca salt. The change in Krafft point of a binary **surfactant** mixt. was very similar to f.p. depression in a binary mixt.

IT 15826-16-1 41343-91-3

RL: PRP (Properties)

(critical micelle concentration of and Krafft point of,)

RN 15826-16-1 HCAPLUS

CN Ethanol, 2-(dodecyloxy)-, hydrogen sulfate, sodium salt (9CI) (CA INDEX NAME)

Me- (CH₂)₁₁-O-CH₂-CH₂-OSO₃H

● Na

RN 41343-91-3 HCAPLUS

CN Ethanol, 2-(dodecyloxy)-, hydrogen sulfate, calcium salt (9CI) (CA INDEX NAME)

Me- (CH₂)₁₁-O-CH₂-CH₂-OSO₃H

● 1/2 Ca

CC 46-3 (Surface Active Agents and Detergents)

ST crit micelle concn **surfactant**; Krafft point ethoxylation degree; sodium alkyl glycol sulfate; calcium alkyl glycol sulfate; polyoxyethylene glycol sulfate **surfactant**; binary **surfactant** Krafft point

IT Detergents

(calcium and sodium dodecylpoly(oxyethylene) sulfates, critical micelle concn. and Krafft point of)

IT 151-21-3, properties 3088-31-1 4780-52-3 13150-00-0

15826-16-1 38826-82-3 41343-91-3 41343-92-4

RL: PRP (Properties)

(critical micelle concentration of and Krafft point of,)

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